Author Index For Volume 73 (January through December, 1995)[1,2]

A

Aalhus, J. L., 314A, 317A
Aaron, D. K., 4A, 237A, 289A
Abbott, T. L., 136A
Abd-Elmoty, A. K., 324A
Abdelgadir, I.E.O., 201A
Abdellatif, H. A., 281A
Abdelrahman, M. M., 153A
Abel, S. F., 102A
Abribat, T., 150A
Acharya, S. N., 324A, 340A
Ackerman, C. J., 293A, 313A
Acton, J. C., 11A
Acuff, G. R., 156A
Adams, B., 165A
Adams, C. F., 1239
Adams, D. C., 95A, 105A, 333A
Adams, E. L., 975
Adams, N. R., 1509
Adamska-Jarecka, G., 209A
Adekunle, I. O., 205A
Adeola, O., 73A, 79A, 183A, 187A, 195A, 2026, 3384
Adjei, M. B., 3085
Aharoni, Y., 1666, 2418, 2712
Aherne, F. X., 141A, 306A, 312A, 313A, 764
Ahmad, M. R., 1803
Ahn, W. J., 61A
Aimone, C. E., 297A
Aimone-Lupher, C. E., 241A
Al-Dehneh, A., 32A
Al-Haidary, A., 49A, 132A
Al-Hassan, M. J., 87A
Al-Maamari, M. T., 166A
Al-Sabbagh, T. A., 2860
Alanis, J., 272A
Albin, R. C., 271A, 286A
Albright, J. L., 2791
Albuquerque, L. G., 43A
Aldrich, C. G., 96A, 824, 835, 2120, 2131
Aldrich, S. L., 88A, 152A, 3712
Alexander, B. M., 1914
Alio, A., 267A
Allee, G. L., 57A, 69A, 70A, 71A, 171A, 281A, 290A
Allen, C. H., 232A, 1914
Allen, D. M., 164A
Allen, M. S., 196A, 2774
Allen, V. G., 207A, 1803
Allison, B. C., 6A
Allison, M. J., 207A
Almond, G. W., 251A
Althen, T. G., 12A, 148A
Altom, E. K., 20A
Alvarez, E., 261A
Alvarez, F. D., 253A
Amador, R., 178A
Amin, V. R., 60A, 163A
Ammerman, C. B., 18A
Amoah, E. A., 257A
Amoikon, E. K., 1123
Andersen, W. R., 110A, 111A
Anderson, D. B., 66A, 1689
Anderson, D. C., 114A, 294A, 296A, 300A, 301A, 319A, 323A, 336A, 2574
Anderson, K., 45A
Anderson, K. L., 1552
Anderson, L. E., Sr., 490, 1093
Anderson, L. H., 232A
Anderson, L. L., 91A, 222A, 3421, 3732
Anderson, P. T., 166A, 320A
Anderson, R. A., 189A, 457
Anderson, R. C., 207A
Andrews, D. R., 249A
Andries, K. M., 118A
Andriguetto, J. L., 225A
Angell, R. F., 333A
Ankrah, N. O., 312A
Anschutz, K. S., 200A
Ansotegui, R. P., 294A, 332A, 336A
Anthony, R. V., 1861
Aoyagi, S., 793, 799
Apgar, G. A., 2640
Appeddu, L. A., 237A
Apple, J. K., 812, 2295
Applegate, D. L., 5A
Aranda, E., 272A
Arave, C. W., 310A
Arbona, J. R., 166A, 2272
Archibald, A. L., 41A
Archiga, C. F., 1401
Arehart, L. A., 319A
Arelovich, H. M., 277A
Arenas-Moreno, L., 159A
Arensdorf, A., 94A
Arentson, R. A., 70A, 1077
Arias, G., 263A
Arkins, S. F., 147A
Armendariz, C. K., 96A, 101A
Armentano, L. E., 546
Armstrong, J. D., 28A, 38A, 222A, 251A, 1552, 2071, 3051
Arnold, R. N., 2289
Arrington, D. J., 8A
Arshami, J., 305A
Arthington, J. D., 54A, 254A, 265A, 266A, 269A, 277A, 2079
Artiola, J., 309A
Aryan, A., 2752
Ashbell, G., 287A, 288A
Ashwell, M. S., 112A
Aslam, M., 273A
Asquith, R. L., 466
Atac, E., 920
Atkinson, J., 180A
Augenstein, M. L., 71A
Austic, R. E., 182A
Avendaño, H., 264A
Avendaño, L., 11 253A
Awaldelseid, N. A., 279A
Ax, R. L., 115A
Ayangbile, O. A., 190A, 204A
Azain, M. J., 70A, 189A, 1019
Azarenko, V. A., 145A
Azim, A., 259A, 273A
Azuma, Y., 88

B

Baah, J., 333A
Backwell, C., 274A
Backwell, F.R.C., 59B
Bacon, C. W., 861
Badran, T. W., 1754
Bae, H. D., 324A, 325A, 326A
Bahaa, A. O., 104A
Bahader, A., 138A, 297A, 316A
Bahr, J. M., 189A, 213A
Baidoo, S. K., 312A, 313A
Baile, C. A., 66A, 153A, 1038, 3585
Bailey, C. C., 298A
Bailey, D. R. C., 300A, 306A, 316A, 317A, 365
Bailey, P. L., 2893
Baird, W. V., 221A
Bajjalieh, N. L., 79A
Bak, A., 1539
Baker, D. H., 176A, 482, 773, 793, 799
Baker, F. L., 1138
Baker, J. F., 1310
Baker, R. L., 3A
Baker, S. M., 36A
Balasubramanian, V., 315A
Balcells, J., 263A, 2146
Baldwin, R. L., VI, 9A
Bales, K. W., 235A, 253A
Ball, R. O., 785
Ballard, E. N., 54A
Bame, J. H., 224A
Bandyk, C. A., 133A
Banks, B. D., 148A, 236A, 237A, 245A
Bannink, A., 265A
Bao, B., 217A, 2086
Barajas, R., 278A
Barakat, K., 148A
Barb, C. R., 27A, 211A, 212A, 1147, 1416
Barber, J. B., 236A, 237A
Barbour, M., 165A
Bárcena, R., 272A, 264A
Barclay, D. J., 198A
Barej, W., 210A, 274A
Barendse, W., 1530, 3789
Barkhouse, K. L., 46A
Barmore, J. A., 2131
Barnett, J. L., 3705
Barreras, A., 169A, 315A
Barros, S. M., 231A
Barry, M. C., 268
Bartle, S. J., 257A, 9, 1038, 2873
Barton, R. K., 333A
Basalan, M., 283A
Bass, J. J., 168A, 3069
Bate, L. A., 126A
Bates, D. B., 197A
Bates, R. O., 50A, 3062, 3241
Batra, T. R., 276A
Batterham, E. S., 785
Bauer, L. L., 1099, 2329
Bauer, M. L., 257A, 1838, 3437
Baughman, C. A., 210A
Bauman, D. E., 36B, 72B, 2263
Baumer, V. H., 249A
Baumrucker, C. R., 34B
Bawcom, D. B., 1368
Bayhan, R., 283A
Bazer, F. W., 221A
Beasley, A. L., 80A
Beaty, J. L., 1187
Beauchemin, K. A., 326A, 340A
Bebe, F. N., 186A
Bechtol, D. T., 9
Becker, B. A., 92A, 131A, 218A
Becker, W. C., 3681
Beckers, Y., 221
Beconi, M. G., 1576
Beede, D. K., 266A
Beekman, D. D., 62A
Beermann, D. H., 138A, 140A, 144A, 160A, 182A, 2493
Beever, D., 274A
Beever, D. E., 59B
Behnke, K. C., 179A, 414, 421, 427, 757, 2564
Behrendt, C. Y., 184A, 215A
Beitz, D. C., 43A, 170A
Belden, L. E., 329A
Belk, K. E., 159A
Bell, A. W., 225A, 2263, 2804
Bell, B. W., 61A
Bell, D. J., 23A
Bell, R. L., 76A
Belladonna, S., 283A
Bellier, R., 128
Bellow, M. S., 967
Bellows, R. A., 239A, 322A, 199, 3406
Bellows, S. E., 322A, 3409
Belyea, R. L., 262A, 3552
Bender, P. K., 269A
Benjamin, R., 260A
Bennett, G. L., 167A, 665, 674, 686, 2609, 2903
Bennett, L. L., 1881
Benson, M. E., 245A
Benyshek, L. L., 119A, 163A
Bequette, B. J., 274A, 59B
Berardinelli, J. G., 25A, 305A
Berg, B. P., 340A
Berg, E. P., 65A, 162A, 284A, 637, 645

[1]Page numbers followed by A refer to the 1995 Abstracts issue, J. Anim. Sci. 73(Suppl. 1).

[2]Page numbers followed by B refer to *The Biology of Lactation in Farm Animals*, J. Anim. Sci. 73(Suppl. 2).

Author Index For Volume 73 (January through December, 1995)[1,2]

A

Aalhus, J. L., 314A, 317A
Aaron, D. K., 4A, 237A, 289A
Abbott, T. L., 136A
Abd-Elmoty, A. K., 324A
Abdelgadir, I.E.O., 201A
Abdellatif, H. A., 281A
Abdelrahman, M. M., 153A
Abel, S. F., 102A
Abribat, T., 150A
Acharya, S. N., 324A, 340A
Ackerman, C. J., 293A, 313A
Acton, J. C., 11A
Acuff, G. R., 156A
Adams, B., 165A
Adams, C. F., 1239
Adams, D. C., 95A, 105A, 333A
Adams, E. L., 975
Adams, N. R., 1509
Adamska-Jarecka, G., 209A
Adekunle, I. O., 205A
Adeola, O., 73A, 79A, 183A, 187A, 195A, 2026, 3384
Adjei, M. B., 3085
Aharoni, Y., 1666, 2418, 2712
Aherne, F. X., 141A, 306A, 312A, 313A, 764
Ahmad, M. R., 1803
Ahn, W. J., 61A
Aimone, C. E., 297A
Aimone-Lupher, C. E., 241A
Al-Dehneh, A., 32A
Al-Haidary, A., 49A, 132A
Al-Hassan, M. J., 87A
Al-Maamari, M. T., 166A
Al-Sabbagh, T. A., 2860
Alanis, J., 272A
Albin, R. C., 271A, 286A
Albright, J. L., 2791
Albuquerque, L. G., 43A
Aldrich, C. G., 96A, 824, 835, 2120, 2131
Aldrich, S. L., 88A, 152A, 3712
Alexander, B. M., 1914
Alio, A., 267A
Allee, G. L., 57A, 69A, 70A, 71A, 171A, 281A, 290A
Allen, C. H., 232A, 1914
Allen, D. M., 164A
Allen, M. S., 196A, 2774
Allen, V. G., 207A, 1803
Allison, B. C., 6A
Allison, M. J., 207A
Almond, G. W., 251A
Althen, T. G., 12A, 148A
Altom, E. K., 20A
Alvarez, E., 261A
Alvarez, F. D., 253A
Amador, R., 178A
Amin, V. R., 60A, 163A
Ammerman, C. B., 18A
Amoah, E. A., 257A
Amoikon, E. K., 1123
Andersen, W. R., 110A, 111A
Anderson, D. B., 66A, 1689
Anderson, D. C., 114A, 294A, 296A, 300A, 301A, 319A, 323A, 336A, 2574
Anderson, K., 45A
Anderson, K. L., 1552
Anderson, L. E., Sr., 490, 1093
Anderson, L. H., 232A
Anderson, L. L., 91A, 222A, 3421, 3732
Anderson, P. T., 166A, 320A
Anderson, R. A., 189A, 457
Anderson, R. C., 207A
Andrews, D. R., 249A
Andries, K. M., 118A
Andriguetto, J. L., 225A
Angell, R. F., 333A
Ankrah, N. O., 312A
Anschutz, K. S., 200A
Ansotegui, R. P., 294A, 332A, 336A
Anthony, R. V., 1861
Aoyagi, S., 793, 799
Apgar, G. A., 2640
Appeddu, L. A., 237A
Apple, J. K., 812, 2295
Applegate, D. L., 5A
Aranda, E., 272A
Arave, C. W., 310A
Arbona, J. R., 166A, 2272
Archibald, A. L., 41A
Archiga, C. F., 1401
Arehart, L. A., 319A
Arelovich, H. M., 277A
Arenas-Moreno, L., 159A
Arensdorf, A., 94A
Arentson, R. A., 70A, 1077
Arias, G., 263A
Arkins, S. F., 147A
Armendariz, C. K., 96A, 101A
Armentano, L. E., 546
Armstrong, J. D., 28A, 38A, 222A, 251A, 1552, 2071, 3051
Arnold, R. N., 2289
Arrington, D. J., 8A
Arshami, J., 305A
Arthington, J. D., 54A, 254A, 265A, 266A, 269A, 277A, 2079
Artiola, J., 309A
Aryan, A., 2752
Ashbell, G., 287A, 288A
Ashwell, M. S., 112A
Aslam, M., 273A
Asquith, R. L., 466
Atac, E., 920
Atkinson, J., 180A
Augenstein, M. L., 71A
Austic, R. E., 182A
Avendaño, H., 264A
Avendaño, L., 11 253A
Awaldelseid, N. A., 279A
Ax, R. L., 115A
Ayangbile, O. A., 190A, 204A
Azain, M. J., 70A, 189A, 1019
Azarenko, V. A., 145A
Azim, A., 259A, 273A
Azuma, Y., 88

B

Baah, J., 333A
Backwell, C., 274A
Backwell, F.R.C., 59B
Bacon, C. W., 861
Badran, T. W., 1754
Bae, H. D., 324A, 325A, 326A
Bahaa, A. O., 104A
Bahader, A., 138A, 297A, 316A
Bahr, J. M., 189A, 213A
Baidoo, S. K., 312A, 313A
Baile, C. A., 66A, 153A, 1038, 3585
Bailey, C. C., 298A
Bailey, D. R. C., 300A, 306A, 316A, 317A, 365
Bailey, P. L., 2893
Baird, W. V., 221A
Bajjalieh, N. L., 79A
Bak, A., 1539
Baker, D. H., 176A, 482, 773, 793, 799
Baker, F. L., 1138
Baker, J. F., 1310
Baker, R. L., 3A
Baker, S. M., 36A
Balasubramanian, V., 315A
Balcells, J., 263A, 2146
Baldwin, R. L., VI, 9A
Bales, K. W., 235A, 253A
Ball, R. O., 785
Ballard, E. N., 54A
Bame, J. H., 224A
Bandyk, C. A., 133A
Banks, B. D., 148A, 236A, 237A, 245A
Bannink, A., 265A
Bao, B., 217A, 2086
Barajas, R., 278A
Barakat, K., 148A
Barb, C. R., 27A, 211A, 212A, 1147, 1416
Barber, J. B., 236A, 237A
Barbour, M., 165A
Bárcena, R., 272A, 264A
Barclay, D. J., 198A
Barej, W., 210A, 274A
Barendse, W., 1530, 3789
Barkhouse, K. L., 46A
Barmore, J. A., 2131
Barnett, J. L., 3705
Barreras, A., 169A, 315A
Barros, S. M., 231A
Barry, M. C., 268
Bartle, S. J., 257A, 9, 1038, 2873
Barton, R. K., 333A
Basalan, M., 283A
Bass, J. J., 168A, 3069
Bate, L. A., 126A
Bates, D. B., 197A
Bates, R. O., 50A, 3062, 3241
Batra, T. R., 276A
Batterham, E. S., 785
Bauer, L. L., 1099, 2329
Bauer, M. L., 257A, 1838, 3437
Baughman, C. A., 210A
Bauman, D. E., 36B, 72B, 2263
Baumer, V. H., 249A
Baumrucker, C. R., 34B
Bawcom, D. B., 1368
Bayhan, R., 283A
Bazer, F. W., 221A
Beasley, A. L., 80A
Beaty, J. L., 1187
Beauchemin, K. A., 326A, 340A
Bebe, F. N., 186A
Bechtol, D. T., 9
Becker, B. A., 92A, 131A, 218A
Becker, W. C., 3681
Beckers, Y., 221
Beconi, M. G., 1576
Beede, D. K., 266A
Beekman, D. D., 62A
Beermann, D. H., 138A, 140A, 144A, 160A, 182A, 2493
Beever, D., 274A
Beever, D. E., 59B
Behnke, K. C., 179A, 414, 421, 427, 757, 2564
Behrendt, C. Y., 184A, 215A
Beitz, D. C., 43A, 170A
Belden, L. E., 329A
Belk, K. E., 159A
Bell, A. W., 225A, 2263, 2804
Bell, B. W., 61A
Bell, D. J., 23A
Bell, R. L., 76A
Belladonna, S., 283A
Bellier, R., 128
Bellow, M. S., 967
Bellows, R. A., 239A, 322A, 199, 3406
Bellows, S. E., 322A, 3409
Belyea, R. L., 262A, 3552
Bender, P. K., 269A
Benjamin, R., 260A
Bennett, G. L., 167A, 665, 674, 686, 2609, 2903
Bennett, L. L., 1881
Benson, M. E., 245A
Benyshek, L. L., 119A, 163A
Bequette, B. J., 274A, 59B
Berardinelli, J. G., 25A, 305A
Berg, B. P., 340A
Berg, E. P., 65A, 162A, 284A, 637, 645

[1]Page numbers followed by A refer to the 1995 Abstracts issue, J. Anim. Sci. 73(Suppl. 1).

[2]Page numbers followed by B refer to *The Biology of Lactation in Farm Animals*, J. Anim. Sci. 73(Suppl. 2).

Berg, P. T., 170A
Berg, R. T., 141A, 299A
Bergen, W. G., 99A, 148A
Berger, L. L., 88A, 96A, 98A, 152A, 272A, 280A, 824, 986, 1694, 1701, 3246, 3503, 3712
Berger, P. J., 40A, 112A, 117A
Bergfeld, E.G.M., 89A, 233A
Bergstrom, J. R., 68A, 69A, 75A, 78A, 83A, 171A
Bermudez, J., 279A
Bernal, G., 334A
Bernal-Santos, G., 138A
Bernard, R. S., 2503
Berndt, M. Y., 321A
Bernier, J. F., 139A, 191A
Berns, G., 188A
Berrie, R. A., 296A
Berrio, L. F., 3673
Berry, B. W., 160A, 245A
Bertram, M. J., 73A
Bertrand, J. K., 119A, 163A
Besser, T., 1227
Best, D. R., 317A
Betts, J. G., 221A
Bhatti, S. A., 1449
Bidner, T. D., 72A, 18A, 172A, 265A, 2033, 2694
Bidwell, C. A., 144A
Biehl, R. R., 773
Biensen, N. J., 92A
Bierman, S. J., 104A, 275A
Bigner, M. E., 160A
Bikker, P., 2355
Birch, M. W., 296A
Bird, A. R., 15A
Birkelo, C. P., 56A
Bishop, D. K., 2390
Bishop, M. D., 41A, 62A, 1927, 3189, 3608
Bixby, D. E., 124A
Bjorge, M., 122A
Black, A., 142A
Black, B. L., 15A
Blackburn, H. D., 244A, 303
Blackwell, R., 134A
Blackwood, R. B., 286A
Blagburn, B., 150A
Blair, R. M., 91A
Blake, R. W., 3519, 3527
Blanchard, S. P., 157A
Blasi, D. A., 94A, 203A, 236A
Blattman, A., 43A, 110A
Blecha, F., 68A, 69A, 254A, 265A, 266A, 269A, 812, 2079, 3341
Bleck, G. T., 39A, 42A, 114A, 139A
Bloom, B. C., 37A
Bloomquist, J. R., 269A
Blouin, D. C., 272A
Blum, S. A., 34A, 83A, 95A, 282A
Bobe, G., 188A
Boden, B. K., 304A
Boese, B. J., 91A, 229A
Boettcher, P. J., 43A
Boggess, M. V., 239A
Bogin, E., 260A
Bohn, G., 322A
Bohn, G. P., Jr., 295A
Boisclair, Y. R., 2263
Boland, E. W., 323A
Boland, M. A., 637, 645
Boleman, S. L., 2033
Boleman, S. J., 2033
Bollinger, D. W., 76A, 175A, 187A, 188A
Bolsen, K. K., 200A, 203A
Bolt, D. J., 91A
Bolze, R. P., 237A
Bonilla, L., 261A
Bonner, J. M., 56A
Bonnet, J. N., 2249
Boone, F., 152A
Boone, W. R., 2503
Boonen, F., 3269
Borbolla, A. G., 151A
Borcher, G. M., 381
Borchert, K. M., 220A
Borgwardt, R., 125A
Bosch, L. K., 290A
Bosch, M. W., 3022, 3562
Boss, D. L., 319A, 323A, 337A
Bostick, G. W., 38A
Bothma, A. J., 154A
Botts, R. L., 166A, 320A
Boucher, J. F., 526
Bourdon, R. M., 45A, 993, 1264
Bourquin, L. D., 1099, 1766, 2329
Bowers, E. J., 131A
Bowman, B. R., 296A, 335A
Bowman, J. G. P., 294A, 295A, 327A, 337A
Boyd, C. K., 219A, 1529
Boyd, L. H., 244A
Boyd, M. E., 3044
Boyd, R. D., 182A, 36B, 622
Boyer, J. E., Jr., 200A, 203A
Boykin, K. P., 7A, 20A, 21A
Boyles, S. L., 3182
Bozich, M. J., 339A
Bradley, N. W., 954, 1576
Brady, C. M., 250A
Brady, H. A., 215A
Bramley, T. A., 230A
Brandsma, H. A., 1658
Brandt, R. T., Jr., 101A, 233A, 258A, 1187, 1595
Branine, M. E., 337A, 9
Branum, J. C., 137A
Brascamp, E. W., 2193
Brasche, M. R., 99A
Braunberg, R. C., 1340
Braund, D. G., 3173
Brazle, F. K., 52A, 98A, 199A
Brem, G., 221A
Brendemuhl, J. H., 19A, 177A, 490, 1093
Brent, B. E., 200A, 203A
Bretz, R. T., 237A
Brewster-Barnes, T., 176A
Bridges, W. C., Jr., 198A, 199A
Briggs, G., 331A
Brink, D. R., 256A
Brink, Z., 232A
Brinks, J. S., 299A, 300A
Brisbane, J. R., 116A
Britt, J. H., 217A
Brittin, H., 155A
Britton, R. A., 39, 1674, 2438, 3111, 3437
Broderick, G. A., 2760
Brodie, A. E., 145A
Brophy, B. H., 166A
Brophy, D. T., 240A
Brosh, A., 1666, 2418, 2712
Broussard, J. R., 967, 3287
Brousseau, P., 150A
Brown, A. H., Jr., 3A, 8A, 9A, 10A, 28A, 169A, 238A, 255A, 256A
Brown, D. R., 115A, 319A, 323A, 329A, 330A
Brown, G. A., 55A
Brown, M. A., 3A, 199A, 238A, 1258
Brown, M. B., 239A
Brown, P. K., 190A
Brown, T. F., 198A
Brown, W. F., 36A, 853, 2865, 3085
Browning, R., Jr., 119A, 159A, 227A, 246A, 2558
Bruemmer, J. E., 294A, 305A
Brumm, M. C., 50A, 246A, 2518
Bruner, B. L., 8A
Bruns, K. W., 236A, 237A
Bruynooghe, J. D., 335A
Bryan, K. S., 179A, 312A
Buchanan, D. S., 113A, 114A, 115A, 1776, 1940
Buchanan-Smith, J. G., 274A, 340A
Buckley, B. A., 284A, 1289, 1303
Buckley, D. J., 3122
Buckley, W. T., 331A
Bucklin, R. A., 182A
Buckrell, B. C., 226A
Buford, W. I., 233A
Buhr, B. L., 1048
Buhr, M. M., 226A, 231A
Buiting, G.A.J., 2193
Bull, L. S., 2727
Bull, R. C., 206A, 3216
Bullock, K. D., 240A
Bunce, T. J., 69A, 70A, 281A
Bunch, T. D., 226A, 227A, 296A, 304A
Bunderson, F. B., 1651
Bunge, R., 1602
Bunting, L. D., 10A, 35A, 276A, 136, 1424, 2474, 2694, 3696
Buonomo, F. C., 66A, 153A, 215A, 218A, 1318, 1327, 3294, 3585
Bureau, D. P., 194A
Burfening, P. J., 297A, 305A
Burgess, D., 295A
Burgos, S., 325A
Burgwald-Balstad, L. A., 328A, 339A, 2677
Burke, G. L., 5A, 28A, 239A
Burke, J. M., 230A
Burke, V. I., 93A, 2677
Burnham, L. L., 78A, 80A, 84A, 171A, 177A, 178A, 179A, 185A
Burns, G. L., 23A
Burns, P. D., 23A
Burny, A., 113A, 114A, 225A
Burr, J. R., 176A
Burrin, D. G., 143A
Burris, W. R., 157A
Burtle, G. J., 181A
Burton, J. H., 2655
Burton, R. O., Jr., 199A
Burvenich, C., 1B
Busboom, J. R., 297A, 315A, 316A
Bushong, D. M., 122A, 126A 128A
Businga, T., 43A
Buskirk, D. D., 48A, 104A, 240A, 937
Butcher, R. L., 233A
Butler, M. J., 155A
Butler, W. R., 223A, 225A
Butts, W. T., Jr., 236A
Byatt, J. C., 150A, 3216
Byers, F. M., 1, 151A, 202A, 237A
Byrem, T. M., 140A

C

Cabello, L., 21A, 22A, 34
Cabrera, M. R., 78A, 80A, 84A, 171A, 177A, 179A
Cadogan, D. J., 82A
Caffrey, P. J., 201A
Cai, Y. J., 181A, 145
Cain, C., 82A
Caine, W., 311A
Calderon, J. F., 286A
Calhoun, M. C., 33A, 178A
Calkins, C. R., 60A, 61A, 157A, 387, 3608
Callesen, H., 1539
Calsamiglia, S., 1459, 1819
Calvert, C. C., 1138
Calvinho, L. F., 18B
Camden, J. M., 1396
Cameron, M. R., 2428
Camfield, P. K., 3A, 28A, 169A, 255A
Campbell, B. K., 230A
Campbell, C. G., 94A, 269A
Campbell, J., 239A
Campbell, J. W., 304A
Campbell, R. G., 180A, 82A, 83A, 85A, 2355
Campbell, R. M., 2071
Campbell, S., 309A
Canale, C. J., 202A
Cannon, J. E., 161A, 164A
Cant, J. P., 15A
Canterberry, S. H., 28A
Cantley, T. C., 64A, 2980
Cantrell, C. E., 7A, 21A
Cao, Z., 136A
Capuco, A. V., 223A, 1B
Caraballo, L., 206A
Carande, V. G., 243A
Carithers, S. N., 104A
Carlson, K. M., 1433
Carlson, M. P., 256A
Carlson, M. S., 50A, 72A, 183A, 193A, 198A
Carpena, M., 947
Carpenter, B. B., 25A, 165A
Carpenter, J. R., 284A, 289A, 339A, 340A, 1289, 1303
Carpenter, R. T., 115A
Carr, S. N., 79A
Carr, T. R., 98A
Carrino, D. A., 295A
Carrion, D., 64A, 77A, 191A, 193A, 472, 3369, 3649
Carroll, J. A., 8A, 126A, 153A, 230A
Carroll, M. W., 19A
Carstens, G. E., 146A, 3044
Carter, G. T., 285A
Carter, S. D., 74A, 266A

Carulla, J. E., 2931
Carvalheira, J., 3519, 3527
Carvalho, F. A., 29A, 3570
Casas, E., 110A
Casey, T. A., 122A
Cash, E. H., 238A, 254A
Casper, D. P., 270A
Cass, J. L., 271A
Cassady, J. P., 41A
Cassel, B. G., 42A
Cassens, R. G., 2289
Cassidy, T. W., 203A
Castillo, R., 178A
Castle, D. L., 22A, 256A
Castree, J. W., 104A
Caswell, L. F., 98A
Catherman, D., 140A
Catlett, G. E., 3427
Caton, D., 1164
Caton, J. S., 93A, 2677
Cattell, M. B., 232A
Cecava, M. J., 1466, 1476, 2706
Cera, K., 195A
Cera, K. R., 82A
Ceregrzyn, M., 207A
Ceriotti, A., 2752
Cervantes, M., 190A
Chae, B. J., 194A
Champney, T. H., 126A
Chang, C. H., 148A
Chang, M. B., 263A
Chang, W.-J., 1147
Chapa, A. M., 10A, 37A, 252A, 258A, 265A, 3673
Chapin, L. T., 216A
Chaput, M., 114A
Chase, C. C., Jr., 8A, 28A, 131A, 236A, 975
Chase, C. R., 266A
Chattin, S. E., 16A, 247A
Chaung, H. C., 146A
Cheeke, P. R., 321A, 909
Chen, C. C., 130A
Chen, H. Y., 148A, 2631, 3621
Chen, P. L., 219A
Chen, W., 141A, 162A, 637, 645
Chen, X. 146A
Chen X. B., 1811
Chen, X. N., 722
Chen, Y. K., 144A
Chenault, C., 21A
Cheng, J., 17A, 172A
Cheng, K.-J., 324A, 325A, 326A, 334A, 340A, 341A
Cheng, O. H., 138A
Chengappa, M. M., 68A, 69A, 3341
Chenoweth, P. J., 26A, 239A, 277A
Chester, S. T., 516
Chesworth, J. M., 131A
Chettle, E., 274A
Chewning, J. J., 3A, 190A
Chi, F., 70A
Chiang, S. H., 2019
Chiba, L. I., 19A
Chilliard, Y., 2063
Ching, S., 71A
Chirase, N. K., 255A
Cho, C. Y., 194A
Choi, C. B., 209A
Choi, H. S., 263A
Choudhary, D. M., 259A
Christ, J., 215A
Christen, S. D., 249A, 259A
Christensen, B. L., 296A
Christensen, D. A., 293A, 330A
Christensen, R. A., 142A, 184A
Christenson, R. K., 87A, 211A, 214A
Christian, L. L., 40A, 42A
Christopherson, R. J., 307A
Chrystal, M. A., 42A
Chung, I. B., 194A
Chung, S., 99A
Chupin, J. M., 2249
Ciampolini, R., 3259
Cianci, D., 3259
Cicela, T. M., 99A, 103A
Cisneros, F., 65A
Claborn, S. W., 1055
Claes, V., 114A
Clare, K. A., 20A
Clark, C. K., 179A, 312A, 332A
Clark, J. D., 190A
Clark, J. H., 99A, 2428
Clarke, N. J., 168A
Clavero, T., 154A, 155A, 206A
Clay, J. C., 3182
Claypool, P. L., 45
Cleale, R. M., 285A
Cleaver, B. D., 226A
Clemens, E. T., 381
Clevenger, T. E., 3552
Cline, J. L., 192A
Cline, T. R., 73A, 86A, 3384
Clinquart, A., 225A
Clodfelter, J. R., 96A
Clutter, A. C., 110A, 113A, 114A, 1776, 1940
Cochran, M. A., 207A
Cochran, R. C., 100A, 101A, 196A, 201A, 204A, 233A, 260A, 1187, 1595
Cockett, N. E., 3A, 7A, 296A, 297A, 300A, 302A, 336A, 3790
Coe, B. L., 141A
Coe, M. L., 220A
Coelho, M. B., 180A, 192A
Coertze, R. J., 931
Coffey, K. P., 98A, 199A
Coffey, R. D., 73A, 81A, 449, 2000, 2532
Cohen, R.D.H., 331A, 335A
Cole, D.J.A., 137A, 181A
Cole, E. W., 57A
Cole, N. A., 2548
Coleman, M. E., 145A
Coleman, S. C., 271A
Coleman, S. W., 252A, 270A, 2609, 2621, 3152
Colin, M., 128
Collier, R. J., 219A, 1529
Collins, J. R., 132A, 232A, 245A
Collins, R. M., 329A
Colombo, G., 74A
Coma, J., 64A, 77A, 191A, 193A, 472, 3369, 3649
Combs, T. R., 74A
Comerford, J. W., 238A, 254A
Comerford, J. C., 253A
Comstock, C. R., 301A
Concha, L. C., 325A
Conley, A. J., 153A, 1408
Conner, D. E., Jr., 173A
Conner, D. E., 12A
Conner, S. D., 285A
Conrad, J. H., 277A
Conrad, S., 920
Cook, D. L., 52A, 67A, 81A
Cook, K. D., 3633
Cook, R. B., 303A
Cooper, B. S., 2834
Cooper, S. R., 184A
Copeland, S. J., 317A
Corah, L. R., 54A, 56A, 254A, 255A, 265A, 266A, 269A, 277A, 2079
Corah, T. J., 3310
Corbett, R., 333A, 338A, 340A
Corbin, C. J., 153A, 1408
Cornelius, S. G., 2524, 3358
Cornforth, D. P., 315A
Cornwell, J. C., 38A
Corradini, C., 113A
Correa, A., 111A, 253A
Correa, J. E., 205A, 285A
Corwin, R. M., 233A
Cosby, N. T., 331A
Cosgrove, J. R., 305A, 306A
Cosgrove, S. B., 148A, 307A
Cossalman, M., 276A
Costello, W. C., 164A
Costello, W. J., 84A, 1982, 1987
Couch, C. M., 6A
Coulter, G. H., 303A
Cousins, B. W., 192A
Cousins, R. J., 1202
Cowman, G. L., 3235, 3510
Cox, N. M., 218A
Craig, W. M., 1793
Cravey, M. D., 45
Crawford, R. C., 59A
Crawley, D. D., 53A
Cray, W. C., Jr., 122A
Cremin, J. D., Jr., 824, 1701, 1766, 3009
Crenshaw, J. D., 50A, 170A
Crenshaw, T. D., 86A
Crews, D. H., Jr., 5A, 235A, 258A
Crews, M. G., 164A
Critser, D. J., 3376
Crompton, L., 274A
Cromwell, G. L., 16A, 73A, 74A, 79A, 81A, 86A, 171A, 172A, 174A, 175A, 449, 2000, 2532, 3351
Cronjé, P. B., 207
Cronrath, J. D., 315A
Crooker, B. A., 85A, 189A, 662
Croom, W. J., Jr., 15A, 516, 1499, 3103, 3673
Cross, D. L., 20A, 199A, 899
Cross, H. R., 13A
Crouse, J. D., 1271
Crow, S. D., 70A, 71A, 171A, 194A
Crowe, M. A., 127A, 345, 2382, 2406, 3030
Crozier, J. A., 207A
Cuca, M., 190A
Cui, H., 630
Cummins, K. A., 19A
Cundiff, L. V., 45A, 46A, 167A, 406, 1271, 1713, 1725, 1920, 2227, 2235, 2579, 2589, 2940, 2951
Cuneo, P., 267A
Cuneo, S. P., 322A
Cunnick, J. E., 127A
Cunningham, B. E., 118A, 2540
Czarnecki-Maulden, G. L., 192A

D

da S. Mariante, A., 124A
Dado, R. G., 105A
Dahlquist, J. M., 50A, 2518
Dailey, J. W., 127A
Dailey, J., 132A
Dailey, R. A., 2094
Dale, B. E., 202A
Daley, C. D., 167A
Dalke, B. S., 200A
Dally, M. R., 125A
Danielson, R. B., 147A
Danielson, T. J., 307A
Danik, C., 22A
Dart, M. G., 26A
Daskalchuk, T. E., 303A
Davenport, G. M., 32A, 269A, 589
Davey, S., 381
Davidson, J. A., 221A
Davidson, M., 239A
Davidson, R. B., 168A
Davis, A. M., 311
Davis, B. W., 99A, 258A
Davis, C. L., 53A
Davis, D. D., 614
Davis, D. L., 91A, 229A
Davis, G., 3281
Davis, G. P., 298A
Davis, G. V., 5A
Davis, G. W., 174A
Davis, J. G., 11A, 200A
Davis, J. J., 154A, 209A, 251A, 275A, 173
Davis, J. L., 205A
Davis, K. C., 294A, 297A, 300A, 301A, 2574
Davis, M. E., 41A, 139A, 1927
Davis, S. K., 140A
Davis, S. L., 138A, 316A, 321A
Davis, T. A., 143A
Davis-Dentici, K., 259A
Davison, K. L., 208A
Dawe, D. L., 208A
Dawson, K., 175A
Dawson, K. A., 257A, 264A
Dawson, L. J., 220A
Dawson, P. L., 11A
Dawson, T. E., 262A
Day, B. N., 64A, 70A, 90A, 2980
Day, J. W., 1038
Day, M. L., 232A, 3206
Day, P. A., 308A, 338A
Dayton, W. R., 144A
de A. Ribeiro, E. L., 1948
de Blas, J. C., 1131
de J. Marichal, M., 263A
de Jong, L., 3562
de Moraes, A.A.S., 221A
de Rodas, B. Z., 176A, 190A, 3657
de Vries, A. G., 2193
De Visser, H., 265A
Deaver, D. R., 253A
DeBusk, T. A., 177A
Decker, A. L., 57A
DeCorte, C., 55A

Decuypere, E., 152A
Deesing, M. J., 127
Degelos, S. D., 224A
DeGregorio, R. M., 77A
DeHaan, K. C., 320A
Del Vecchio, R. P., 87A, 91A, 2662
DelaTorre, F., 2971
Delcurto, T., 333A
Delgado, A., 267A
DeLuca, D. D., 175A
Dematawewa, C.M.B., 112A, 117A
DeMayo, F., 145A
Demjanec, B., 824, 835
Demos, B. P., 61A
den Hartog, L. A., 246A, 247A
DeNise, S. K., 111A, 115A
DePew, C. L., 215A, 276A, 136, 1424, 3696
Derbigney, M. J., 35A
DeRouen, S. M., 4A
Deschamps, F. C., 264A
DeShazer, J. A., 381
Desler, M. D., 67A
Dettle, T. M., 248A
Deutscher, G. H., 256A
Dexter, D. R., 3235
DeYonge, K. G., 3216
DeYoung, D., 267A
Dhuyvetter, D. V., 323A
Di Carlo, A. L., 223A
Diab, I.A.K., 179A
Dial, G. D., 85A, 250A, 3543
Diao, R., 144A
Díaz, T., 220A
Dickerson, R. L., 1888
Dickerson-Weber, P. S., 148A
Dickey, J. F., 2503
DiCostanzo, A., 2882
Didion, B. A., 88A, 213A, 251A
Diekman, M. A., 51A
DiGregorio, G. B., 1784
Dikeman, M. E., 57A, 156A, 157A, 1725, 2295
Dillmann, C., 3259
Dils, C. L., 293A, 313A
Dimsoski, P., 250A
Ding, K. W., 302A
Dintzis, F. R., 1138
Dippel, W. W., 219A
Dje, Y., 279A
Dlamini, B. J., 91A, 222A, 3421, 3732
Dmytruk, O., 334A
Dobbie, P. M., 167A, 168A
Dobler, J., 279A
Dockerty, T. R., 5A
Dohy, J., 112A
Dolezal, H. G., 164A, 165A, 166A, 281A, 21, 2390
Donadio, A., 21A, 34A, 35A
Donahue, D. J., 320A
Donald, A. W., 126A
Donart, G. B., 337A
Dong, Y., 326A
Donkin, S. S., 546
Donnelly, J. R., 335A
Donoghue, A. R., 134A
Donovan, S., 189A
Doolin, D., 209A
Doornbos, D. E., 294A, 300A, 301A, 319A, 323A, 336A, 2574
Doreau, M., 212
Doud, L. K., 3189
Douglas, M. W., 127A
Doumit, M. E., 166A, 3596
Douwes, H. E., 306A
Dovč, P., 3493
Dove, C. R., 11A, 74A, 211A, 167
Doye, D. G., 133A
Doyle, S. P., 300A
Drackley, J. K., 53A, 94A, 103A, 1694, 1701, 2120, 3009
Drew, M. D., 81A, 82A
Dritz, S. S., 55A, 68A, 69A, 73A, 75A, 76A, 83A, 3341, 3666
Drost, M., 220A, 231A
Drudik, D. K., 110A
Drury, K. C., 228A
Du, F. X., 111A
Dubeski, P. L., 314A
Dubreuil, P., 148A, 150A
Ducharme, G. A., 271A
Dudenhoeffer, G., 89A
Duffle, M. R., 117A
Duffy, J. Y., 212A
Dufour, J. J., 224A, 805, 3141
Duguies, M. V., 149A
Duncan, R. L., 5A
Dunlap, D., 255A
Dunshea, F. R., 2263
Durand, D., 552
Dörsch, I., 2050
Dusek, R. K., 235A
Duster, J. J., 92A
Dvorak, R. A., 52A
Dwyer, D. A., 72B
Dyson, T. S., 90A
Dzakuma, J. M., 155A

E

Eakins, R., 241A
Ealy, A. D., 1401
Early, R. J., 284A, 289A, 339A, 340A, 1289, 1303
Easter, R. A., 79A, 82A, 83A, 85A, 182A, 185A, 189A, 192A, 213A, 57B, 433, 1086, 1390, 1906, 2347, 3000
Eastridge, J. S., 297
Eastridge, M. L., 103A, 105A
Eaton, M. J., 216A
Ebner, S., 143A
Echternkamp, S. E., 87A, 167A, 220A, 231A, 1152
Eck, T. P., 51A, 236A, 258A
Eckardt, G. R., 109A
Eddy, L., 331A
Edgerton, L. A., 212A
Edrington, T. S., 508
Edwards, A. J., 2873
Edwards, J. F., 228A
Eichen, P. A., 49A, 141A, 150A, 1954
Eilert, S. J., 3621
Eisemann, J., 140A
Eisen, E. J., 110A, 112A, 2340
Ekkel, E. D., 1544
El Esawy, F., 251A
El Kandelgy, S. M., 2524
Elder, J. L., 307A
Eler, J. P., 3253
Elissalde, M. H., 508
Ellersieck, M., 175A, 187A, 1741
Ellersieck, M. R., 1954, 3427
Elliot, J. M., 144A
Ellis, D., 11A
Ellis, M., 39A, 42A, 65A, 66A, 78A, 114A, 139A
Ellis, W. C., 21A, 22A, 35A, 273A
Ellis, W. W., 291A
Ellison, L. V., 72A
Elsasser, T. H., 138A, 150A, 152A, 2669
Ely, D. G., 237A
Elzo, M. A., 116A
Eness, P., 90A
Engdahl, G. R., 129A
Engel, B., 1933
Engle, T. E., 332A
Engstrom, D. F., 327A
Enns, R. M., 299A, 300A
Enright, W. J., 127A, 345, 2382, 2406, 3030
Ercanbrack, S. K., 120A
Erickson, B. H., 27A
Ericsson, S. A., 26A
Erlanson-Albertsson, Ch., 210A
Ermer, P. M., 86A
Ernst, C. W., 3608
Escobar, E. N., 134A
Esnaola, M. A., 178A, 211A, 234A
Espinosa, S., 261A
Espinoza, J. L., 307A, 2888
Essig, H. W., 7A, 20A, 21A
Estell, R. E., 205A
Estepa, C. A., 325A
Esteves, S. N., 183A, 184A, 288A
Estienne, M. J., 212A
Etherton, T. D., 136A, 145A, 151A
Evans, A., 159A
Evans, J. L., 300A
Evans, R. P., 111A
Evans, T., 322A
Eversole, D. E., 257A
Evock-Clover, C. M., 2282
Ewan, R. C., 73A, 77A, 86A, 88A, 193A, 145, 159
Ewel, R. E., 234A
Ewing, T. R., 312A
Ezekwe, M. O., 262A

F

Fagerström, C., 210A
Fahey, G. C., Jr., 96A, 103A, 1099, 1110, 1766, 2329, 2428, 2458, 2469, 3009, 3639
Fahmy, S. T., 324A
Fairbanks, D. J., 111A
Falaki, M., 113A, 225A
Fan, L. Q., 365
Fan, M. Z., 187A, 191A, 311A, 2319, 2364
Fan, Y. K., 15A
Fang, Z., 115A
Fanning, M. D., 26A
Fanti, P., 74A
Farin, C. E., 216A, 220A
Farmer, C., 151A
Farnsworth, J. H., 304A
Farrington, D. O., 614
Faulconnier, Y., 2063
Faulkner, D. B., 48A, 90A, 104A, 236A, 240A, 937, 986, 3230
Faulkner, L. C., 1251
Faust, M., 107A
Faustman, L. C., 160A
Favero, R. J., 3230
Fayer, R., 150A
Fazelie, M. H., 302A
Fedde, M. R., 2295
Fedler, C. A., 161A
Fehr, M., 293A
Feil, V. J., 208A
Felix, A., 205A, 2071
Feltes, R., 39A, 114A, 920
Feng, P., 327A, 338A, 341A, 3476
Fenton, T. W., 329A
Fernandes, S., 129A
Fernandez, C., 149A
Fernandez, J. M., 10A, 31A, 35A, 37A, 124A, 252A, 258A, 265A, 272A, 276A, 279A, 136, 173, 1123, 1424, 2694, 3673, 3696
Fernandez, M. I., 133A
Fernández-Rivera, S., 206A
Ferrante, P. L., 2009
Ferraz, J.B.S., 3253
Ferreira, G. B., 46A, 118A
Ferrell, C. L., 94A, 843
Ferrer, A., 202A
Ferrer, O., 155A, 159A
Fichter, S. A., 33A, 282A
Field, R. A., 315A, 393
Field, T. G., 3613
Figueroa, J. L., 190A
Fike, G. D., 54A, 1595
Filipov, N. M., 208A
Finck, B. N., 92A, 147A
Finn, M. M., 105A
Finnerty, K. D., 138A, 144A, 160A
Finnerty, M., 2382
Fiorotto, M. L., 2272
Firkins, J. L., 103A, 105A, 1449, 1889
Firman, J. D., 57A
Firth, K., 274A
Fischer, D. B., 53A
Fish, T. K., 201A
Fisher, A. D., 127A
Fisher, D. J., 330A
Fisher, D. S., 196A
Fisher, N. S., 1310
Fisher, R. L., 50A
Fitch, G. Q., 165A
Fitzgerald, S. K., 318A
Flanders, J. R., 284A
Fleming, J. A., 221A
Flick, T. L., 282A
Flieger, M., 20A
Flint, D. J., 61B, 3574
Floate, K. D., 320A
Flores, A., 307A, 2888
Flores, J. A., 234A, 325A
Flowers, W. L., 6A
Floyd, C. R., 48A, 254A
Fluharty, F. L., 258A, 1585
Flynn, T. J., 1340
Fodge, D. W., 175A
Foldager, J., 288A
Foltz, J. C., 308A
Fondevila, M., 263A
Fontana, J. D., 264A
Fontenot, J. P., 36A, 207A, 1803

Foote, K. D., 126A
Forbes, C. D., 37A
Forbes, J. M., 195A
Forbes, T.D.A., 25A, 228A, 1576
Forcherio, C., 889
Forcherio, J. C., 57A, 258A, 3427
Ford, G., 6A
Ford, J. J., 41A
Ford, M. J., 1576
Ford, S. P., 92A, 199, 1852, 2102
Formigoni, A., 113A, 180A
Fornea, R. J., 10A
Forrest, D. W., 26A, 30A, 153A, 242A, 947
Forrest, J. C., 65A, 141A, 162A, 637, 645
Forrester, D. J., 276A
Forsberg, N. E., 138A, 316A
Forseth, J. A., 179A
Foster, K. A., 637, 645
Foulley, J.-L., 3259
Fournier, M., 150A
Fouts, W. B., 222A
Fowler, M. A., 77A
Fox, D. G., 140A, 268, 1888
Fox, J. A., 1048
Fox, J. D., 161A
Foxcroft, G. R., 305A, 306A, 313A
Frajblat, M., 223A
Fralix, K. D., 240A
François, E., 221
Franke, D. E., 235A
Franklin, M. A., 16A, 17A
Frazier, E., 148A
Fredrickson, E. L., 205A
Fredricksson, W. E., 220A, 231A
Freeman, A. E., 43A, 47A
Freetly, H. C., 93A, 843, 1030
Freeze, B., 328A
Freitas, A. R., 183A, 184A
Freitas, R., 309A
Freking, B. A., 44A
Fretz, T. A., 122A
Frey, L. P., 184A
Friedman, L., 1340
Friend, T. H., 29A, 122A, 126A, 128A
Fries, G. F., 1639
Friesen, K. G., 68A, 69A, 81A, 2647, 3392
Fritz, J. O., 100A, 201A
Fritz, K. D., 14A
Froetschel, M. A., 15A, 35A, 272A, 1499, 3103
Froseth, J. A., 311A, 312A
Fujihara, T., 207A
Fullwood, S., 132A
Funahashi, H., 90A
Funderburke, D. W., 70A
Funk, D. A., 248A
Furuya, Y., 88
Fusconi, G., 283A

G

Gaebe, R. J., 328A, 339A
Gaesink, G. H., 1351
Gage, R. K., 28A
Gahl, M. J., 175A
Gaines, D. W., 1340
Gallavan, R. H., 2609, 2621
Gallavan, R. H., Jr., 35A
Galloway, D. L., Sr., 34A, 260A, 261A, 277A, 278A
Galloway, D. L., 32A
Galyean, M. L, 298A, 337A, 1219
Gambill, D. M., 255A, 328A
Gamble, B. E., 19A
Gao, X., 163A
Garber, M. J., 143A, 1972, 3216
Garber, M. G., 282A
Garcia-Bojalil, C., 264A, 272A
Garcia-Sirera, J., 134A, 213A, 214A
Gardner, B. A., 166A, 281A
Gardner, D. R., 208A
Gardner, T. L., 164A, 166A
Gardner, W. C., 331A
Garley, C., 226A
Garner, G. B., 49A, 132A, 1954
Garnett, I., 314A
Garrett, J. E., 54A
Garrett, J. L., 59A
Garssen, G. J., 2272
Gartley, C., 226A
Gaskins, C. T., 315A, 316A
Gates, R. N., 1793
Gatnau, R., 82A, 159
Gaynor, P. J., 216A
Gazal, O. S., 9 217A, 222A, 241A
Geerken, C., 261A
Geisert, R. D., 1408
Gelaye, S., 257A
Genendoy, H., 281A
Gengelbach, G. P., 33A, 571
Gengler, N., 3269
Genho, E. M., 140A
Genho, P. C., 239A
Gentry, J. L., 96A
Gentry, L. R., 37A, 252A, 258A, 265A, 272A
George, M. H., 3235, 3510
Georges, M., 7A, 297A, 302A
Gerber, D. B., 55A
Gerken, C. L., 3317
Gerrard, D., 144A
Gerrard, D. E., 64A, 67A, 142A, 144A, 163A, 1689, 2980
Gerrish, J. R., 99A
Geske, J. M., 45A, 237A
Ghate, S. R., 181A
Gibb, J. B., 301A
Gibbins, A. M., 223A
Gibson, J. P., 116A
Gibson, L. A., 294A
Gibson, L. L, 316A
Gidenne, T., 128
Gieseke, L., 3552
Giesemann, M. A., 175A
Gilbert, R. P., 300A
Gilbert, S. Y., 156A, 2308
Gilkerson, K. K., 143A
Gill, D. R., 95A, 96A, 97A, 101A, 166A, 268A, 281A, 9, 21, 3152
Gill, J. W., 600
Gillen, R. L., 1174
Gipp, W. F., 179A, 312A
Gipson, T. A., 115A, 123A, 246A
Girard, C. L., 186A
Girard, I. D., 264A
Giustra, C. V., 257A
Glaze, J. B., Jr., 44A
Glenn, B. P., 202A, 262A, 237
Glimp, H. A., 135A, 242A, 297A, 292, 1227
Glock, R. D., 3235, 3510
Godfrey, R. W., 132A, 232A, 245A
Godke, R. A., 967, 3287
Goedeken, F. K., 360
Goerl, K. F., 3621
Goetsch, A. L., 10A, 32A, 169A, 256A, 260A, 261A, 277A, 278A, 843, 1766
Goff, J. P., 92A
Golden, B. L., 299A, 300A, 301A, 993, 1264, 2204
Goldy, G. G., 176A
Goll, D. E., 1351
Golsteyn, L. R., 307A
Gong, J. G., 230A
Gonzalez, R., 206A
González, S. S., 264A
Good, B. A., 1408
Good, T.E.M., 210A
Goodband, R. D., 55A, 68A, 69A, 72A, 73A, 75A, 76A, 78A, 80A, 81A, 83A, 85A, 171A, 2647, 3341, 3392, 3666
Goodwin, J. L., 122A
Goodwin, R. N., 40A, 117A
Goonewardene, L. A., 308A, 312A, 324A, 333A, 338A, 340A
Gordon, R., 272A
Gorssen, J., 2254
Graham, D. B., 295A, 296A
Graham, J. K., 232A
Gralak, M. A., 330A
Grandin, T., 125A, 127A
Granger, L., 134A
Grant, A. L., 64A, 67A, 144A, 1689
Grant, R. J., 59A, 102A, 2791
Graser, H.-U., 1609
Gray, J. I., 3122
Gray, K. S., 330A
Gray, M. L., 132A, 232A, 245A
Gray, S., 225A
Greaser, M. L., 161A, 318A
Green, N. K., 8A
Green R. D., 299A, 300A, 1713, 1725, 3790
Greene, B. B., 4A
Greene, E. M., 20A
Greene, L. W., 151A, 1, 55, 3785
Gregory, G. M., 3051
Gregory, K. E., 43A, 87A, 110A, 119A, 167A, 231A, 406, 1920, 2227, 2235, 2951
Gregory, W. H., 14A
Greiwe-Crandell, K. M., 2922
Greve, T., 1539
Grieger, D. M., 219A
Grieve, D. G., 2655
Griffin, A. S., 176A
Griffin, D. B., 5A
Griffin, D. J., 19A
Griffith, M. K., 241A, 2086
Griffiths, L. G., 289A
Griggs, T. C., 327A
Griinari, J. M., 72B
Grimaud, P., 212
Grimes, L. W., 26A, 121A, 199A
Grimes, R. W., 1776, 2834
Grings, E. E., 322A, 336A, 2102
Groothius, P. G., 91A, 229A
Gross, K. L., 175A
Grotelueschen, D. M., 57A
Grum, D. E., 1694. 1701, 3009
Grummer, R. R., 2820
Guada, J. A., 263A
Gudmundsson, O., 206A
Guenthner, J. F., 308A
Gugle, T. L., 80A, 177A
Guidry, A. J., 1B
Guilbault, L. A., 224A, 805, 3141
Gunter, D., 138A
Gunter, S. A., 1219, 1174
Gurure, R., 180A
Guthrie, H. D., 210A, 2834
Gutierrez, P. H., 244A
Gutiérrez, C. G., 230A
Gutman, M., 260A
Guzman Vega, G. A., 241A
Gwartney, B. L., 387
Gwayumba, W., 293A

H

Ha, J. K., 326A
Hacker, R. R., 534, 2655
Hacker, R. R., 170A, 224A, 229A, 251A
Hackett, H., 235A, 254A
Haddad, S. G., 102A
Haden, M., 145A
Hafley, J. L., 35A, 198A, 2474
Hafs, H. D., 142A, 184A
Hagen, D. R., 214A
Hagger, C., 2213
Hagler, W. M., Jr., 516, 1499, 3103, 3673
Haglof, S. A., 2105
Hagsten, I., 134A
Hahn, J. D., 175A, 482, 773
Hahn, K. J., 136A
Haigh, R. H., 332A
Halbrendt, C. K., 289A
Hale, D. S., 237A
Hale, R. L., 287
Hall, D. D., 172A
Hall, J. B., 954, 3409
Hall, J. W., 340A, 1493
Hall, T., 131A
Halley, J. T., 187A
Hallford, D. M., 295A, 296A, 305A, 328A
Ham, G. A., 353, 2438, 2931, 1674
Hamilton, C. R., 50A, 71A, 79A, 84A, 86A, 183A
Hamilton, D., 303A
Hamilton, T. D., 23A, 219A, 220A, 234A, 3719
Hamlin, K. E., 1713, 1725
Hamman, L. L., 156A, 160A, 2308
Hammond, A. C., 8A, 9A, 36A, 131A, 236A, 975, 1487, 1881, 2865, 3078
Hammond, J. M., 1776, 2834
Hampton, J. H., 230A
Han, G. W., 302A

Han, I. K., 182A, 194A
Han, M. S., 311A
Hanaway, M. J., 129A
Hancock, D. D., 1914
Hancock, D. L., 284A, 300A, 3790
Hancock, J. D., 78A, 80A, 84A, 171A, 177A, 178A, 179A, 185A, 414, 421, 427, 757, 2564
Hanna, W. W., 34A
Hansel, W., 3287
Hansen, E. L., 71A
Hansen, L. R., 1694, 1701, 3009
Hansen, P. J., 221A, 228A, 1401
Hanson, D. J., 245A
Haque, A.K.M., 76A
Harbers, L. H., 200A, 203A
Harder, R. R., 2186
Hardesty, D., 235A, 254A
Hardt, P. F., 55
Hargrove, D. D., 5A
Harmison, B. S., 105A
Harmon, D. L., 175A, 257A, 270A, 77, 1766, 1828, 3111, 3766
Harms, P. G., 219A
Harper, A. F., 185A, 194A, 457, 1372
Harpster, H. W., 238A, 249A, 254A
Harrell, R. J., 36B
Harris, D. L., 141A, 192A
Harris, J. E., 194A
Harris, J. J., 2043
Harris, L. K., 312A
Hart, G. L., 40A
Hart, S. P., 32A, 137A, 209A, 270A, 565
Harter-Dennis, J. M., 212A
Hartnell, G. F., 3051
Hartnett, D. C., 100A
Hartsfield, S. M., 8A
Harvey, R. B., 508
Harvey, R. W., 28A, 30A, 1552, 2071, 3051
Harvey, T. D., 197A
Harvey, T. J., 58A
Hastrup, T., 180A
Hatfield, P. G., 1227, 2853
Hathaway, M. R., 85A, 144A, 189A
Haugk, K. L., 1972
Hausman, D. B., 152A
Hausman, G. J., 146A, 152A, 722
Havstad, K. M., 205A, 255A
Hawkins, D. A., 8A, 30A, 153A, 219A
Hawkins, D. E., 255A, 296A, 305A, 321A, 328A, 541
Hawkins, D. R., 236A, 237A
Hawkins, E. W., 309A
Hawkins, G., 308A
Hawkins, G. A., 3189
Hawkins, G. W., 1803
Hawkins, H. E., 4A, 26A, 237A, 242A
Hayakawa, S., 192
Haydon, K. D., 83A
Hayes, C. J., 93A
Hayes, D. J., 1048
Hayes, S. H., 212A, 240A
Hays, C. L., 269A, 589
Hays, M. D., 165A
He, P., 141A, 764
Head, W. A., 328A
Head, W. A., Jr., 1227
Headon, D. R., 1074
Healy, B. J., 258A
Heap, D., 219A, 1529
Heath, H., 138A
Hecht, W., 3493
Hedrick, H. B., 2882
Heetkamp, M.J.W., 2254, 3562
Heinrich, P. E., 3235
Heldt, J. S., 332A
Hellerich, V. L., 61A
Helm, J. H., 267A
Helmond, F. A., 3022
Hemsworth, P. H., 49A, 3705
Henckel, P., 3574
Henderson, C. L., 51A
Hendrix, K. S., 1476, 2706
Henken, A. M., 1658
Henricks, D., 225A
Henricks, D. M., 23A, 199A
Henry, P. R., 18A
Hepton, J. R., 327A
Herbein, J. H., 210A
Herdt, T. H., 337
Hermesmeyer, G. N., 98A, 280A
Herold, D. W., 104A, 284A, 2931, 3437
Herring, A. D., 197A, 373, 1310
Herring, W. O., 119A
Herschler, R. C., 320A, 2873
Herselman, M. J., 270A, 275A
Hess, B. W., 57A, 205A, 271A, 3752
Hess, D. L., 3274
Hess, G. S., 204A
Hessing, M.J.C., 1544
Hession, A. O., 251
Hewell, A. S., 183A
Hibbard, B., 516, 526
Hibbert, C. A., 197A
Hickey, G. J., 148A
Hickok, D. T., 256A, 1674
Hicks, T. A., 128A, 131A
Hidiroglou, N., 276A
Hiernaux, P.H.Y., 206A
Higgason, B. R., 21A
Higgins, J. J., 199A
Higgins, T.J.V., 2752
Hilderman, R., 225A
Hill, B. D., 316A
Hill, D. A., 7A, 277A , 2079
Hill, G. M., 34A, 50A, 72A, 74A, 95A, 134A, 193A, 198A, 282A
Hill, J., 283A
Hill, N. S., 202A, 208A
Hill, T. M., 249A, 259A
Hill, W. J., 95A, 97A, 101A, 268A, 281A
Hillyard, A. L., 41A
Hilton, G. G., 164A, 317A
Hilton, H. G., 309A
Hinds, F. C., 319A, 323A, 329A, 330A
Hines, R. H., 78A, 80A, 84A, 171A, 177A, 178A, 179A, 185A, 414, 421, 757
Hiney, K. M., 184A, 793, 799
Hinman, D. D., 206A, 325A, 327A
Hirakawa, D. A., 176A
Hironaka, R., 328A
Hirsch, T. S., 294A
Hitz, A. C., 99A
Hix, S., 225A
Hixon, D. L., 315A, 339A
Ho, C. H., 174A
Ho, C.-Y., 65A
Hoban, T. J., 2727
Hoefler, W., 242A
Hoehler, D., 208A
Hoeschele, I., 1609
Hoey, A. J., 1754, 3281
Hoffman, D. P., 89A
Hoffman, P. C., 248A
Hoffman, R., 215A
Hoffman, R. K., 144A
Hoffman, R. M., 2922
Hogan, D. H., 203A
Hogarth, B. W., 30A
Hogberg, M. G., 193A, 213A, 214A
Hogue, D. E., 138A, 2493
Holcombe, D. W., 297A, 313A, 3752
Holden, L. A., 203A
Holland, J. L., 2922
Holland, M. D., 1861
Holliman, J. L., 14A
Hollingsworth-Jenkins, K. J., 95A
Holloway, J. W., 30A, 119A, 252A, 1167, 3044
Holmes, Z. A., 316A
Holstein, P., 2712
Holthaus, D. L., 200A, 203A
Holyoak, G. R., 226A, 227A, 304A
Holyoake, P. K., 3543
Holzer, Z., 260A, 1666, 2418, 2712
Holzgraefe, D. P., 175A
Honaramooz, A., 302A
Honeyfield, D. C., 3216
Hoogenboezem, J. M., 228A
Hoover, D. T., 35A, 37A, 252A, 258A, 265A, 272A
Hoover, L. C., 155A, 3633
Horn, G. W., 45, 2687
Hornsby, P., 254A
Horohov, D. W., 265A
Horton, G.M.J., 131A
Hosking, B. J., 2600
Hossner, K. L., 138A, 332A
Hostetler, C. E., 311A, 312A, 3681
Houghton, J.A.S., 2094
Hould, B. S., 322A
Howard, M. D., 69A, 281A, 1576
Howell, J. L., 221A, 1401
Howes, A. D., 325A
Hristov, A. N., 329A
Hsieh, F.-H., 175A
Hsu, H., 312A
Hu, C. Y., 138A, 145A
Huang, J. C., 227A
Huang, S. X., 311A
Hubbard, C., 213A
Hubbard, C. H., 88A
Hubbard, R. K., 11A
Huber, J. T., 267A
Huber, S. A., 3752
Huerta-Leidenz, N. O., 157A, 159A, 168A, 169A
Huff, H., 175A
Huff-Lonergan, E., 1064
Huff-Lonergan, E. J., 62A
Huffman, J., 284A
Huffman, K. L., 155A, 156A, 2308, 3633
Huffman, R. P., 353, 360, 2438, 2916
Hufstedler, G. D., 3785
Hughes, J., 292A
Huiskes, J. H., 246A
Huisman, J., 118
Humphrey, W. D., 19A
Hunnicutt, L. K., 241A, 323A
Hunt, C. W., 206A, 327A, 338A, 341A, 3476
Huntington, G., 140A, 268A
Huntington, G. B., 237, 1828
Hunyh, M. S., 147A
Hurley, W. L., 1906
Hurlock, W. F., 212A
Hussein, H. S., 96A, 103A, 176A, 272A, 280A, 835, 2428, 2458, 2469, 3246, 3503, 3639
Huston, J. E., 235A, 253A
Hutchison, J., 239A
Hutjens, M. F., 53A, 58A
Hutter, J. B., 31A
Huyler, M. T., 276A
Hwang, S. C., 264A
Hyde, L. R., 301A
Hynes, N., 2382
Hyun, Y., 78A

I

Ichinohe, T., 207A
Iiams, J. C., 66A
Ikeda, Y., 1213, 1214
Illius, A. W., 196A
Imakawa, K., 87A, 214A
Improta, F., 310A
Inglish, S., 134A
Inskeep, E. K., 233A, 2094
Ireland, F. A., 48A, 937
Ireland, J. J., 210A
Ireland, J.L.H., 210A
Irvin, K. M., 250A
Irwin, L. N., 31A
Ishikawa, A., 1213, 1214
Ismaili, A., 201A
Istasse, L., 225A
Ivey, H. W., 19A
Iwaasa, A. D., 340A
Izquierdo, M. M., 163A

J

Jack, N. E., 207A
Jackson, J. R., 1906
Jackson, S. P., 7A, 137A, 165A, 297A
Jackson, W. G., 238A, 1258
Jacobson, L. D., 981
Jacques, K. A., 325A
Jaeger, J. R., 100A
Jagannatha, S., 47A
Jaikaran, S., 312A, 313A
Jakobsen, K., 3402
James, B. E., 216A
James, L. F., 208A
James, N. A., 245A
Janni, K. A., 981
Jánosa, A., 112A
Jansman, A.J.M., 118
Janzen, R. A., 336A
Jaramillo, M., 178A

Jasiorowski, H., 153A
Jenkins, T. C., 818
Jenkins, T. G., 94A, 843, 1030, 2113, 3627
Jennings, N. T., 189A
Jensen, A. H., 1906
Jensen, L. R., 3574
Jensen, M. S., 3402
Jenson, E., 296A
Jeremiah, L. E., 316A
Jerez-Timaure, N. C., 168A
Jessop, N. S., 196A
Jia, Z. H., 115A
Jiang, H., 2105
Jiang, R., 113A
Jimenez, J. A., 307A, 2888
Jindal, R., 306A
Johnson, A. B., 1202
Johnson, A. D., 28A, 177A, 1499
Johnson, D. D., 297, 1881
Johnson, D. E., 100A, 138A, 321A, 334A, 1208, 2483
Johnson, E. S., 166A
Johnson, J. C., Jr., 11A, 200A
Johnson, J. E., 2503
Johnson, K. A., 276A, 315A, 316A, 2483
Johnson, K. R., 277A
Johnson, L., 25A, 288A
Johnson, L. A., 254A
Johnson, M., 89A
Johnson, M. S., 1914
Johnson, M. Z., 292A
Johnson, P. M., 155A
Johnson, R. C., 161A, 1982, 1987
Johnson, R. K., 41A, 120A, 2177, 2186
Johnson, R. W., 92A, 147A
Johnson, W., 231A
Johnson, Z. B., 3A, 8A, 9A, 20A, 22A, 32A, 34A, 169A, 200A, 277A
Johnston, L. J., 71A, 76A, 250A, 3358
Johnston, M., 128A
Johnston, S. D., 43A
Jones, D. B., 66A, 85A
Jones, E. E., 2340
Jones, J. M., 1476
Jones, J. S., 20A
Jones, R., 189A
Jones, R. R., 335A
Jones, S. D. M., 314A, 316A, 317A
Jones, S. J., 67A
Jones, T. J., 196A
Jones, W. R., 12A
Jongbloed, A. W., 173A, 188A, 213A, 265A
Jongbloed, R., 213A
Jongman, E., 3705
Joo, S. T., 61A
Joost, R. E., 881
Jose, H. D., 59A
Judge, M. D., 1689
Judkins, M. B., 293A, 313A, 3752
Juengel, J. L., 217A
Jung, G. A., 203A
Jung, H. G., 104A, 1271, 2774
Jung, S. H., 264A
Jungst, S. B., 117A
Jurgella, G. L., 3189

K

Kachman, S. D., 46A, 2579
Kahl, S., 150A, 152A
Kaiser, C. J., 301A
Kalmbacher, R. S., 853
Kamalu, T., 330A
Kaminski, M. A., 212A
Kamps-Holtzapple, C. A., 508
Kang, M. S., 80A, 177A
Kanter, S. Y., 134A
Kapil, S. J., 92A
Kapp, G. M., 29A, 126A
Kappel, L. C., 2474
Kappes, S. M., 43A, 112A
Kaps, M., 247A
Karabinas, V., 2355
Karg, H., 2050
Karlsson, B. W., 3402
Kasser, T. R., 1019, 1038
Kastelic, J. P., 302A, 303A
Kasterka, M., 210A
Kastner, C. L., 2741
Kats, L. J., 75A, 76A, 2647
Kattnig, R. M., 309A, 322A
Katz, L. S., 129A
Kauffman, R. G., 61A, 65A
Kearnan, J. M., 954
Kebede, G., 224A
Keefer, B. E., 219A, 220A, 3719
Keele, J. W., 665, 674, 686
Keeler, M. R., 56A
Keenan, T. W., 210A
Keetch, G. C., 239A, 308A
Kegley, E. B., 186A, 266A, 2721
Kehoe, C., 313A
Kehrli, M. E., Jr., 92A, 34B
Keisler, D. H., 89A, 217A, 231A, 233A, 1901, 3241
Keith, E. A., 236A
Keith, N. K., 65A, 236A
Kellems, R. O., 310A
Keller, W. L., 147A
Kelley, D. H., 47A
Kelley, K. W., 147A
Kelley, R. L., 37A
Kellogg, D. W., 200A, 277A, 278A
Kelly, A. M., 144A
Kelly, G. R., 51A
Kelly, J. M., 3775
Kelm, S. C., 47A
Kelton, K. S., 178A
Kemme, P. A., 173A, 188A, 213A
Kemp, B., 3022
Kemp, R. A., 118A
Kemper Green, C. N., 153A, 228A, 230A
Kendall, P. A., 2727
Kenison, D. C., 1
Kennedy, B. W., 2959
Kennedy, G. A., 84A, 185A, 421, 427
Kennedy, S. W., 199A
Kennelly, J. J., 267A, 336A
Kensinger, R. S., 136A, 249A, 36B
Keown, J. F., 42A, 43A, 47A, 59A
Kerber, J. A., 76A
Kercher, C. J., 279A, 335A
Kerley, M. S., 69A, 70A, 99A, 258A, 262A, 281A, 290A, 889, 1396, 3427
Kerr, B. J., 185A, 433, 3000, 3392
Kerr, C. A., 74A, 78A
Kerr, J. L., 373
Kershaw, S., 85A
Kerth, C. R., 7A, 158A, 165A, 166A, 750
Kesler, D. J., 88A, 90A, 152A, 3230, 3712
Ketelaars, J.J.M.H., 195A
Kettmann, R., 114A
Khan, A. G., 259A, 273A
Khan, B. A., 308A
Khan, V., 22A
Khorasani, G. R., 267A, 336A
Khosraviani, M., 138A
Khumnirdpetch, V., 229A
Kiela, P., 207A, 274A
Kiela, P. R., 210A
Kielian, T. L., 69A, 3341
Kiesling, D. O., 51A, 88A
Killeen, G. F., 52A, 1074
Killefer, J., 166A
Killen, J. H., 325A
Kilmer, L., 107A
Kim, D. S., 263A, 264A
Kim, E. J., 263A
Kim, H. J., 264A
Kim, H. L., 33A
Kim, I. H., 80A, 84A, 171A, 177A, 178A, 179A, 185A
Kim, N. H., 90A
Kim, S. H., 147A
Kim, Y. H., 149A, 194A
Kim, Y. S., 149A
Kimberling, C. V., 332A
Kincaid, L. A., 215A
Kincaid, R. L., 153A
Kinder, J. E., 89A, 233A
Kindt-Koster, N. A., 219A
King, D. W., 205A
King, V. L., 250A, 3543
King, W. A., 226A
Kirby, C. J., 89A
Kirby, J. D., 8A, 27A
Kirkland, J. B., 194A
Kirkpatrick, B., 43A, 110A
Kirkpatrick, B. W., 40A, 110A, 1530
Kirsch, J. D., 93A
Kitchalong, L., 2694
Kitto, S. L., 289A
Kittok, R. J., 2243
Klaves, J., 920
Klei, L., 2540
Kleinbeck, S. N., 128A
Klemesrud, M. J., 102A
Kliebenstein, J. B., 1048
Klindt, J., 66A, 91A, 93A, 153A, 1318, 1327, 3294, 3585, 3732
Kline, K. H., 184A
Kline, R. S., 137A
Klita, P. T., 329A
Klont, R. E., 96, 108
Klontz, G. W., 3485
Klopfenstein, T. J., 95A, 97A, 102A, 104A, 105A, 157A, 275A, 284A, 229, 353, 583, 598, 1674, 2438, 2916, 3437
Knabe, D. A., 126A, 128A, 151A, 177A, 178A
Knapp, B. W., 239A
Knapp, J. R., 151A
Knight, A. D., 120A, 1559
Knipfel, J. E., 333A
Knowles, T. A., 18A, 181A
Knutsen, J. S., 49A
Kobayashi, S., 2054
Kobayashi, Y., 220A, 232A
Koch, R. M., 1271, 1920, 2227, 2235, 2951
Kochera Kirby, Y. L., 2243
Kocsis, M. G., 317A
Koehler, D. D., 50A
Koenig, K. M., 326A, 331A
Kogut, J., 213A
Kojima, F. N., 89A, 233A
Koketsu, Y., 250A
Kolver, E. S., 261A
Koohmaraie, M., 13A, 66A, 63A, 166A, 406, 1351, 1735, 2272, 2986, 3304, 3333, 3596, 3608
Kopchick, J. J., 151A
Kornegay, E. T., 17A, 172A, 173A, 174A, 185A, 194A, 457, 1372, 1381, 2640
Köster, H. H., 101A, 260A
Kotarski, S. F., 516
Kotrolla, J. S., 12A
Kott, R. W., 295A, 320A, 322A, 2853
Kouakou, B., 32A, 34A, 260A, 261A, 277A, 278A
Kouba, A., 225A
Kouba, J. M., 199A
Kraeling, R. R., 2A, 27A, 211A, 1147, 1416
Kraft, K., 93A
Kraft, L. A., 149A, 285A
Kraidees, M. S., 202A
Krause, D. O., 2347
Kreft, B. S., 147A
Krehbiel, C. L., 89A
Krehbiel, C. R., 1674, 2438, 2916, 2931, 3111
Kreider, D. L., 22A, 235A, 254A
Kreikemeier, K. K., 101A, 236A, 260A, 283A, 578
Krenzer, E. G., Jr., 45
Kress, D. D., 114A, 294A, 296A, 300A, 301A, 319A, 323A, 336A, 2574
Kridli, R. T., 295A, 296A
Kriese, L. A., 4A, 14A
Kris-Etherton, P. M., 151A
Kronberg, S. L., 2102
Kronfeld, D. S., 2009, 2922
Krook, L., 2043
Kropf, D. H., 156A, 3392
Krupa, D., 148A
Krysl, L. J., 1174, 3752
Ku, P. K., 198A
Kubena, L. F., 508
Kuehn, C. S., 104A
Kuhl, G., 94A
Kuhl, G. L., 51A, 133A, 1595
Kuhlers, D. L., 117A
Kuhlman, G., 186A
Kuhlmann, S. W., 178A
Kuhn, M. T., 47A
Kujawski, M., 187A
Kulasek, G., W., 330A
Kung, L., Jr., 251
Kunkel, H. O., 289A
Kunkel, P. A., 240A
Kunkle, W. E., 197A, 1881, 3078
Kuramitsu, K., 88
Kusina, J., 85A, 189A
Kusina, N. T., 1433

L

Laborde, H. E., 277A
LaCount, D. W., 94A, 99A, 103A
Ladely, S. R., 229, 360
Lahne, R. E., 54A
Lalman, D. L., 57A
Lamb, B. K., 276A
Lamb, C., 215A
Lamb, G. C., 56A, 233A, 234A
Lamb, J. B., 95A, 105A
Lamberson, W. R., 56A, 64A, 106A, 142A, 154A, 247A, 2980, 3241
Lambooy, E., 96, 108
Lammoglia, M. A., 24A, 25A, 29A, 229A, 230A, 234A, 1167, 3570
Lan, Y. H., 738
Lanari, M. C., 3131
Lanclos, D. K., 308A
Langlois, B., 175A
Lanier, E. K., 126A
Lansdell, J. L., 158A, 1735, 3633
Lapierre, H., 139A, 191A
Larbi, A., 205A
Lardner, H. A., 335A
Lardy, G. P., 105A
Larsen, G. L., 208A
Larsen, K. L., 171A, 177A, 178A
Larsen, R. E., 975
Larson, B., 889
Larson, B. T., 257A, 1396
Larson, E., 334A
Larson, E. M., 39
Larson, R. G., 312, 313, 921
Larson, R. L., 255A
Larson, S., 135A, 308A
Laszlo, J. A., 1138
Latour, M. A., 12A
Lauber, J. J., 134A
Lauderdale, J. W., 121A
Laudert, S. B., 39
Lautner, G. C., 121A
Lawrence, B. V., 73A, 195A, 2026, 3384
Lawrence, L. M., 176A
Lawrence, S. E., 197A
Lay, D. C., Jr., 29A, 126A
Laytimi, A., 201A
Le Neindre, P., 2249
Leach, L. M., 66A
LeaMaster, B., 230A
Ledoux, D. R., 76A, 187A, 188A
Lee, A. J., 288A
Lee, C., 116A
Lee, H. F., 2019
Lee, H. G., 263A
Lee, H. J., 263A
Lee, J. H., 264A
Lee, J. M., Jr., 3274
Lee, K. U., 182A
Lee, S. R., 263A
Lee, S. Y., 209A
Leech, F., 335A
Lees, B. M., 324A
Lefaucheur, L. M., 144A
Lefcourt, A. M., 2669
LeFever, D. G., 299A, 319A
Lei, X. G., 193A
Leite-Browning, M. L., 119A, 227A, 246A, 2558
Leith, D. E., 2295
Lellis, W. A., 3216
Lemenager, R. P., 44A, 1689
LeMieux, F. M., 18A, 72A, 172A
Lemme, C., 230A
Lengerken, G. v., 170A
Lenis, N. P., 213A
LePage, P., 331A
Lesniewska, V., 274A
Levario, M., 328A
Leveziel, H., 3259
Levis, D. G., 49A, 3705
Levorse-McCann, L. M., 152A
Levy, D., 1666
Lew, J. P., 176A
Lewis, A. J., 77A, 86A, 102A, 172A, 2315, 2631, 3376
Lewis, A. W., 24A, 25A
Lewis, G. E., 341A
Lewis, P. E., 233A
Lewis, P. K., 169A
Lewis, R. D., 173A
Leymaster, K. A., 1030, 3627
Leyva, V., 226A
Li, B. T., 307A
Li, S., 311A, 534
Li, Y., 3421, 3732
Liang, L. C., 146A
Liang, R., 1861
Liao, C. W., 212A
Libal, G. W., 50A, 71A, 79A, 84A, 183A, 1982, 1987
Liberati, N., 2094
Lieb, S., 183A
Lin, C. L., 2019
Lin, E. C., 42A, 117A
Lin, I. X., 77A
Lin, J. H., 227A
Lin, X., 1701
Linda, S. B., 276A
Lindberg, G. L., 188A
Lindemann, M. D., 16A, 73A, 81A, 171A, 172A, 174A, 185A, 194A, 457, 1372, 1381, 2640
Lindsey, B. R., 233A
Link, J. E., 50A, 72A, 74A, 193A, 198A
Linn, J. G., 104A
Lintzenich, B. A., 1187
Lipsey, J. R., 67A
Lipsey, R. J., 50A, 2882
Liptrap, R. M., 231A
Littell, R. C., 1164
Little, J. A., 117A
Littledike, E. T., 238A, 2113
Liu, B., 147A
Liu, C. Y., 146A
Liu, G., 157A
Liu, H. C., 41A, 921
Liu, J., 76A, 187A, 188A
Liu, K. H., 227A
Liu, M. F., 141A, 299A, 302A
Liu, Q., 160A, 3131
Liu, Y., 162A, 226A, 227A, 304A, 29
Lloyd, J. W., 250A
Lobley, G., 274A
Lobley, G. E., 59B
Lôbo, R. B., 3253
Lodge, S. L., 97A, 284A
Loerch, S. C., 139A, 1585, 3199, 3206
Lognay, G., 114A
Lomax, M., 274A
Londoño, L. 325A
Lonergan, S. M., 62A, 166A, 3596, 3608
Long, J. B., 159A
Long, M. B., 48A, 51A
Longardner, C. N., 176A
Lookingland, K. J., 216A
Looper, M., 235A
Looper, M. L., 8A, 9A, 22A
Lopez, J., 279A
Lopez-Molina, O., 307A
Lorenzen, C. L., 5A
Losonsky, J. M., 192A
Lou, R., 175A
Louis, C. F., 40A
Lovendahl, P., 113A, 1539
Lovin, J., 262A
Lowrance, R., 11A
Lozano, O., 267A
Lozeman, F. J., 306A, 317A
Lu, C. D., 2043
Lucy, M. C., 64A, 89A, 219A, 231A, 233A, 1529, 2980
Ludden, P. A., 1466, 1476, 2706
Lueking, D. D., 53A
Luiting, P., 2193
Lukefahr, S. D., 118A, 153A
Lunstra, D. D., 2177, 2186
Lunt, D. K., 30A, 146A, 55, 373, 1310, 3325
Luo, M. F., 115A
Luo, X. G., 18A
Lupton, C. J., 252A, 253A
Lusas, E. W., 177A
Lusby, K. S., 48A, 254A, 63, 651, 657, 2390
Lykos, T., 267A
Lynch, G. L., 192A
Lysyk, T. J., 325A

M

Maak, S., 170A
Machado, R., 90A
Mackie, R. I., 176A, 2347
MacNeil, M., 46A
MacNeil, M. D., 114A, 118A, 299A, 3627
MacRae, J., 274A
MacRae, J. C., 59B
Madhyastha, M. S., 208A
Maeng, W. J., 263A, 264A
Mahan, D. C., 70A, 71A, 74A, 86A, 151
Maina, D., 129A
Maiorano, G., 159A, 393
Majak, W., 340A, 1493
Makarechian, M., 299A
Mäkinen, M., 173A, 188A
Makus, L. D., 308A
Malcolm-Callis, K. J., 1219
Males, J. R., 49A
Malinowski, K., 142A, 184A
Mallinckrodt, C. H., 1264
Malven, P. V., 67A, 2105
Manabe, N., 88
Mancini, M. A., 2A, 147A
Mancini, M. G., 2A, 147A
Mandebvu, P., 277A, 278A
Mandigo, R. W., 61A, 3621
Mankar, M., 27A
Mankell, K. O., 981
Manzano, A., 183A, 184A
Mapletoft, R., 303A
Marchello, M. J., 164A, 170A
María, G. A., 129A
Marquardt, R. R., 208A
Marquez, A. P., 45A
Marsh, W. E., 250A
Marshall, T. T., 5A, 291A, 63, 651, 657
Martin, A. M., 5A
Martin, C., 552
Martin, D. R., 37A
Martin, F. G., 1202
Martin, G. S., 140A, 146A
Martin, J., 235A
Martin, L. C., 319A
Martin, N. P., 104A
Martin, P. R., 256A
Martin, R. J., 152A, 1019
Martin, S. A., 2141
Martin, T. G., 44A, 113A, 699
Martz, F. A., 99A
Maruyama, K., 2282
Mascarenhas, Y. P., 264A
Masincupp, F. B., 37A
Massart, S., 113A, 222A, 225A
Massenzio, A. M., 184A
Matamoros, I. A., 211A, 234A
Matamoros, J. L., 211A
Matamoros, Y., 325A
Matejovsky, K. M., 2156
Mateos, G. G., 1131
Mater, M. K., 148A
Mathew, A. G., 16A, 247A
Mathiews, G. L., 299A
Mathis, C. P., 242A
Mathis, M. J., 1196
Mathison, G. W., 326A, 327A, 329A, 334A, 338A, 178
Matte, J. J., 151A, 186A
Matteri, R. L., 64A, 92A, 142A, 150A, 218A, 2980, 3241
Matthews, J. C., 269A, 270A, 3464
Matthews, J. O., 18A, 195A
Matthews, M. L., 1754
Maudoux, B., 221
Maxwell, C. V., 176A, 3657
Maxwell, C. V., Jr., 190A
May, B. J., 129A
May, S. G., 1310
Mayes, M. S., 65A
Mayo, D., 243A
Mazzanti, E., 3259
McAllister, T. A., 324A, 325A, 326A, 334A, 340A, 341A
McArthur, N. H., 8A, 219A
McBride, B. W., 15A, 274A
McBride, B.W.T., 3775
McBurney, M. I., 2319
McCall, C. A., 290A
McCann, J. P., 113A
McCartney, D. H., 303A, 330A
McCaughey, W. P., 1493
McCaw, M. B., 251A
McClure, K. E., 258A, 3199, 3206, 3447
McColl, A., 320A
McCollum, F. T., III, 1174
McCollum, F. T., 197A, 236A, 45
McCollum, M. Q., 270A
McComb, M. A., 64A

McCormack, J. F., 606
McCormick, R. J., 295A, 315A, 393
McCoy, R. A., 102A, 2438, 2916
McCue, P., 321A
McCulloch, K. D., 111A
McCully, G. A., 72A, 193A, 198A
McCully, M. A., 285A
McCusker, R. H., 152A
McDaniel, B. T., 43A
McDonald, A. D., 178
McDonald, E., 33A
McDonald, M. F., 304A
McDowell, L. R., 95A, 183A, 266A, 276A, 277A, 490, 1093, 1202, 1440
McElhenney, W. H., 4A, 14A, 290A
McEwen, P. L., 271A
McFarland, D. C., 143A
McGee, J. D., 269A
McGill, W. B., 336A
McGinty, G., 334A
McGlone, J. J., 127A, 128A, 131A, 132A
McGowan, C. H., 297
McGrath, M. F., 147A
McGuire, L. A., 148A
McGuire, M. A., 72B
McGuire, W. J., 87A, 214A
McIntosh, A. R., 208A
McIntosh, F. M., 1811
McIntosh, W. A., 122A
McIntush, E. W., 217A
McKee, R. M., 89A
McKeith, F. K., 39A, 65A, 66A, 78A, 82A, 114A, 433, 738, 986
McKinney, T. S., 134A
McKinnie, M. R., 6A
McKinnon, J. J., 330A
McKown, C. D., 241A
McLaren, D., 128A
McLaren, D. G., 109A, 738
McLennan, J., 323A
McLennan, S. R., 279
McLeod, K. R., 257A, 77, 1766, 1828
McMahon, C., 138A, 150A
McMahon, C. D., 150A
McMahon, L. R., 325A
McMillin, K. W., 158A
McMurphy, R. M., 2295
McMurty, M. R., 77A
McNabb, W., 2752
McNaughton, J. L., 192A
McNeal, L. G., 338A
McNeel, R. L., 1962
McNeill, J. W., 133A
McNew, R. W., 218A, 229A
McNitt, J. I., 118A
McPeake, S. R., 114A
Meacham, T. N., 2009
Meade, M. K., 1368
Means, W. J., 318A
Mears, G. J., 302A, 307A, 324A
Medica, D. L., 129A
Meeker, D. L., 40A
Meier, J. C., 204A
Meintjes, M., 967
Meiske, J. C., 2882
Meissner, H. H., 207, 931, 2447
Melner, M. H., 217A
Melson, B. E., 233A
Melton, S. L., 279A
Melvin, E. J., 89A, 233A
Menchaca, M. A., 9A, 28A, 236A
Méndez, J., 1131
Mendoza, G. D., 264A, 272A
Meneses, R., 338A
Meng, Q., 262A
Ménissier, F., 2249
Menten, J.F.M., 174A
Menzies, M. D., 14A
Meola, E., 180A
Mercer, G.J.K., 168A
Merchen, N. R., 96A, 103A, 176A, 824, 835, 1099, 1110, 2120, 2131, 2329, 2428, 2458, 2469, 3639
Meredith, S., 89A, 209A
Merks, J.W.M., 2193
Mersmann, H. J., 136A, 1962, 2043, 3294
Mertens, D. R., 201A
Meseck, N. L., 387
Mesta, J., 26A
Metcalf, J., 274A
Metcalf, J. A., 59B
Meuwissen, T.H.E., 1933
Meyer, D. L., 93A
Meyer, H. H., 138A, 297A, 316A
Meyer, H.H.D., 2050
Meyer, R. L., 1433
Michal, J. J., 179A, 311A, 312A
Mickelson, J., 144A
Mies, W. L., 26A, 242A
Miesner, J. R., 238A
Mikel, W. B., 7A, 12A, 14A
Milanuk, M. J., 381
Mileham, A., 109A
Miles, R. D., 18A
Millamena, A. A., 173
Miller, B. L., 77A
Miller, C. R., 9
Miller, D. C., 3051
Miller, E. C., 129A
Miller, F., 235A
Miller, G. F., 218A, 229A
Miller, H. L., 48A, 51A
Miller, H. W., 12A
Miller, J. E., 28A
Miller, K. D., 39A, 65A, 114A
Miller, M. A., 109A
Miller, M. F., 13A, 155A, 156A, 158A, 160A, 164A, 165A, 166A, 750, 1055, 1368, 1713, 1735, 1881, 2308, 3633
Miller, P. S., 77A, 86A, 172A, 2631, 3376, 3621
Miller, R. H., 112A
Miller, R. K., 13A, 155A, 156A
Miller-Graber, P., 93A
Milligan, L. P., 3775
Mills, S. E., 145A
Milner, T. J., 327A
Milton, C. T., 101A, 270A
Min, J. K., 194A
Min, W. K., 263A
Miner, J. L., 136A
Minikhiem, D. L., 252A, 253A, 320A
Minton, J. E., 233A, 265A, 269A, 812, 2295
Mir, P. S., 306A, 317A, 324A, 331A
Mir, Z., 306A, 324A, 331A
Mirando, M. A., 2A, 3681
Mitchell, A. D., 137A, 162A
Mitchell, G. E., Jr., 33A, 282A, 77
Mitsuhashi, T., 62A
Mitsumoto, M., 2289
Miyada, V. S., 174A
Miyamoto, H., 88
Moazami-Goudarzi, K., 3259
Moccia, R., 180A
Moeller, C. L., 541
Moeller, S. J., 64A
Mohamed, F. F., 281A
Mohamed, O. E., 260A, 281A
Mok, S. B., 60A
Moline, W. J., 198A
Moloney, A. P., 138A, 144A
Molony, V., 125A
Molyneux, R. J., 208A
Momont, P. A., 206A, 239A, 308A, 325A, 327A, 338A
Monaghan, M. L., 127A
Monegue, H. J., 16A, 73A, 86A, 172A, 449, 2000
Montaldo, H., 42A
Montano, M., 284A, 286A
Montegue, M. R., 96A
Monterroso, V. H., 228A, 1401
Montgomery, T., 2873
Moody, D. E., 115A, 3789
Moody, W. G., 157A
Moon, Y. S., 147A
Mooney, K. W., 3351
Moore, A., 2752
Moore, A. D., 335A
Moore, A. B., 218A
Moore D. W., 339A
Moore, G. A., 252A
Moore, J. A., 285A
Moore, J. E., 197A
Moore, K. C., 56A
Moore, S. A., 239A
Moran, T. V., 64A, 142A
Morgan, G. L., 220A
Morgan, J. B., 164A, 300A, 317A, 318A, 399, 3235, 3310, 3317, 3510, 3613
Morgan Jones, S. D., 306A
Morgan Morrow, W. E., 174A
Morgan, W. W., 133A, 136A
Morley, W. C., 82A
Moron-Fuenmayor, O. E., 157A, 159A, 169A
Morris, C., 332A
Morris, C. A., 14A, 156A
Morris, C. M., 57A
Morris, J. R., 170A
Morrison, D. G., 256A, 1251
Morrison, J. A., 54A
Morrissey, P. A., 3122
Morse, D., 2733
Mortimer, R. G., 319A, 3310
Moscoso, W., 325A
Moseley, M., 134A
Moseley, W. M., 152A, 526, 3409
Moser, E. B., 235A
Moser, L. E., 598, 2524
Moser, R. L., 2524
Motyl, T., 210A
Moura, A. S., 154A
Moustafa, S. M., 324A
Moyer, J. L., 98A, 199A
Mroz, Z., 173A, 188A, 213A, 265A
Mtukuso, A. P., 141A
Mueller, J. P., 30A
Muir, W. M., 699
Muller, L. D., 261A
Mullinix, B. G., 95A
Mulvaney, D. R., 7A, 14A, 37A, 589
Munoz-Medellin, D., 147A
Munoz-Medillin, D. A., 2A
Muntifering, R. B., 1576
Murdoch, W. J., 1789
Murkve, B. T., 3189
Murphy, M. R., 104A
Murphy, R. A., 1074
Murray, A. C., 317A
Murray, J. A., 120A
Murray, J. D., 112A
Murray, L. W., 205A
Murry, A. C., 173A
Murtaugh, M. P., 92A
Musser, R. M., 83A
Mutsvangwa, T., 274A
Myer, R. O., 19A, 177A, 182A, 490, 1093
Myers, M. W., 3287
Mysterud, I., 1012

N

Nachtomi, E., 2712
Nadal, M. R., 3696
Nadeem, M. A., 259A
Nagano, N., 88
Nagaraja, T. G., 101A, 260A
Nakamura, M., 130A
Nakamura, S., 2054
Nam, D. S., 764
Narayanan, R. M., 60A
Nargund, R., 148A
Närvä, H. M., 223A
Nash, T. G., 98A, 152A, 240A, 280A, 986, 1602, 3230, 3712
Nasti, K. B., 229A
Nayigihugu, V., 200A
NCR-89 Committee on Swine Management, 246A, 250A
Neary, M. K., 51A, 65A,284A
Neelakantam, N., 213A
Neely, T. R., 13A, 14A
Nejdfors, P., 210A
Nelsen, T. C., 1138
Nelson, D. A., 213A, 214A
Nelson, D. R., 2131
Nelson, L. A., 44A, 113A
Nelson, M. L., 339A
Nelssen, J. L., 55A, 68A, 69A, 72A, 73A, 75A, 76A, 78A, 80A, 81A, 83A, 85A, 171A, 2647, 3341, 3392, 3666
Nemoto, T., 130A
Nesbitt, M. D., 49A, 132A
Nessmith, W. B., Jr., 72A, 75A, 80A, 171A
Nett, T. M., 1784
Neubauer, D. R., 297
Neuendorff, D. A., 24A, 25A, 126A, 227A, 249A, 496, 1167, 2558, 3223
Newbold, C. J., 1811
Newcomb, M. D., 57A, 70A, 71A, 171A, 194A
Newell, R. F., 1340
Newman, B., 630
Newman, K. E., 33A, 310A

Newman, S., 162A
Newton, E. A., 151
Newton, G. L., 11A, 34A, 95A, 181A, 200A, 273A, 282A
Nez-Dominguez, R., 2940
Nicastro, F., 159A
Nichols, D. A., 89A, 185A
Nichols, W. T., 96A
Nicholson, I., 239A
Nicodemus, N., 1131
Nicolas, N., 114A
Nielsen, D., 297A, 302A
Nielsen, D. L., 198A
Nielsen, H.J.S., 11A
Nielsen, M., 113A
Nielsen, M. K., 44A, 1948, 2243
Nienaber, J. A., 1030
Niino-DuPonte, R. Y., 339A, 340A
Nishimura, K., 2315, 3325
Nishimura, N., 2315
Nissen, S., 191A
Nissen, S. L., 66A, 139A, 185A, 159, 2272
Niswender, G. D., 217A, 541
Niswender, K. D., 541
Nitsan, Z., 2712
Nizar, J., 201A
Njeru, C. A., 1440
Noblet, J., 1567
Nockels, C. F., 332A
Noguera, E., 169A
Nold, R. A., 84A
Nordstedt, R. A., 248A
Northcutt, S. L., 133A, 1002
Norton, S. A., 176A
Notter, D. R., 2640
Nour, N. M., 105A
Novakofski, J., 65A, 738
Nugent, R. A., III, 190A
Nunn, C. L., 322A
Nuzback, D. E., 75A
Nydegger, J. R., 2A
Nygaard, C. M., 128A

O

O'Donnell, K. M., 160A
O'Donnell, M. W., Jr., 1340
O'Farrell, K. J., 3687
O'Kiely, P., 127A
O'Mara, F. P., 201A
O'Neill, C., 298A
O'Nuallain, E., 127A
O'Quinn, P. R., 177A, 178A
Oats, C. N., 158A
Obando, O., 154A
Odde, K. G., 319A, 541, 3235
Odle, J., 77A, 1701, 1906, 3009
Odom, J., 243A
Okamoto, N., 1213, 1214
Okamura, C., 144A
Okamura, C. S., 64A, 142A
Okere, C., 251A
Okine, E., 178
Okine, E. K., 333A, 338A, 340A
Olcott, B. M., 1123
Oldham, J., 230A
Oldham, J. M., 3069
Oldham, J. R., , 24A, 234A
Olesen, L. S., 128A
Oliveira, M.C.S., 287A
Oliver, J. W., 20A
Oliver, S. P., 18B
Olmsted, A., 320A
Olmsted, A. W., 2873
Olson, B., 2853
Olson, B. E., 294A
Olson, K. C., 100A, 196A, 204A, 296A, 335A, 2677
Olson, P. A., 256A
Olson, T. A., 5A, 123A, 131A, 236A
Olson, W., 303A
Oltjen, J. W., 2971
Oman, J. S., 228A, 253A
Ono, Y., 2282
Oosting, S. J., 324A, 325A, 341A
Orban, J. I., 79A
Orme, L. E., 309A, 334A
Orr, D. E., Jr., 172A
Orth, R. L., 53A, 58A
Ortigues, I., 552
Osawa, Y., 213A
Osborn, T. G., 589
Osborne, V. R., 170A
Oscar, T. P., 728
Oss, G. M., 541
Ostermeier, G. C., 225A
Ott, E. A., 183A, 466
Ottmar, G., 323A
Overland, M., 3358
Overton, T. R., 99A
Owen, B. L., 164A, 166A
Owen, K. Q., 68A, 69A, 72A, 75A, 76A, 81A, 83A, 171A, 2647, 3666
Owens, D. R., 250A
Owens, F. N., 95A, 97A, 101A, 268A, 281A, 283A, 21, 3152
Owensby, C. E., 100A
Owsley, W. F., 7A, 19A

P

Paape, M. J., 223A, 1B
Pace, L. W., 69A
Painter, L., 3274
Paisley, S. I., 328A, 339A
Palma, G. A., 221A
Panciroli, A., 180A
Panemangalore, M., 186A
Pang, H., 299A
Panter, K. E., 208A
Pantoja, J., 103A
Papas, A. M., 276A
Paputungan, U., 299A
Parish, S. M., 3476
Park, C. S., 147A
Park, H., 263A
Park, K., 278A
Park, K. K., 32A, 34A, 260A, 261A, 277A, 278A
Park, N. H., 41A, 1927
Park, R. L., 110A, 111A, 334A
Parker, D., 267A
Parker, D. S., 2146
Parker, E. E., 337A
Parker, G., 175A
Parker, G. R., 73A, 174A, 2000
Parker, N. A., 257A
Parkhurst, A. M., 381
Parks, F. P., 249A
Parrett, N. A., 74A, 3447
Parrish, F. C., Jr., 62A, 1064
Parrott, J. C., 39
Parrish, J. J., 225A
Parsons, C. M., 96A, 176A
Parsons, K. M., 812
Paschal, J. C., 133A, 165A, 237A, 373
Patchett, A., 148A
Pate, F. M., 36A, 853, 2865
Patel, A., 60A
Paterson, J. A., 322A, 889, 1396, 3427
Patil, A., 278A
Patil, A. R., 32A, 260A, 261A, 277A, 278A
Patterson, D. J., 222A, 240A, 954
Paul, J. B., 967
Paulsmeier, D. V., 2447
Paxton, R. E., 66A
Pedroso, A. F., 287A, 288A
Pegg, G. G., 1754
Pekas, J. C., 213A, 214A
Pell, A. N., 3455
Peltier, M., 226A
Peltz, J. M., 23A
Pence, B. C., 155A
Pepper, I., 309A
Pére, M. C., 2994
Perez Rigau, A., 1372
Pérez, J. F., 263A
Perino, L. J., 238A
Perkins, J. L., 9A, 22A
Perkins, T. L., 9A, 111A, 1713
Perry, T. C., 1888
Person, H. L., 58A
Pesall, J. E., 143A
Pessarakli, M., 309A
Peters, D. N., 71A, 79A, 84A
Peters, J. L., 145A
Peters, J. P., 516
Peters, K. E., 89A, 233A
Petersen, B., 188A
Petersen, M. K., 255A, 294A, 328A, 337A
Peterson, K. T., 296A
Peterson, N. G., 249A
Peterson, P. R., 99A
Pettigrew, J. E., 71A, 76A, 85A, 189A, 250A, 981, 2524, 3358
Petty, S. J., 29A
Pfeiffer, F. A., 252A, 253A
Pfennig, M. E., 44A
Pfister-Genskow, M. A., 3189
Pfister, J. A., 208A
Phelps, D. A., 322A
Phillips, J. M., 10A, 255A, 256A
Phillips, W. A., 165A, 199A, 236A, 238A, 252A, 2609, 2621, 2687
Phua, S. H., 629
Phy, T. S., 130A
Pierce, D. W., 122A
Pierce, J. L., 81A, 171A
Pierzynowski, S. G., 32A, 210A, 274A, 565, 3402
Pietri, A., 283A
Pike, M. M., 2033
Pilbeam, T. E., 285A
Pinedo, C., 169A, 315A
Piper, E. L., 20A, 1396
Pitt, R. E., 268
Pittroff, W., 244A
Piva, A., 180A
Piva, G., 283A
Plaine, K. J., 191A
Plascencia, A., 261A, 280A
Plastow, G. S., 109A
Poer, L. A., 239A, 338A
Pohlman, F. W., 156A, 157A
Polastre, R., 154A
Pollak, E. J., 116A, 117A, 3519, 3527
Pollard, G. V., 259A
Pomp, D., 110A, 115A, 919, 1408, 3789
Pond, K. R., 31A
Pond, W. G., 136A, 143A, 2043, 3294
Pontif, J. E., 195A, 2033
Poole, E. M., 221A
Poore, M. A., 3051
Poore, M. H., 6A, 30A, 280A, 285A
Popp, J. D., 331A
Poppi, D. P., 279
Popwell, J. M., 2A
Portell, G., 89A
Porter, J. K., 871
Porter, M. B., 226A
Portetelle, D., 113A, 222A, 225A
Pospiech, E., 161A
Possin, I. R., 55A
Powe, T. A., 7A
Powell, D., 630
Powell, M. R., 1901
Power, R., 52A
Power, R. F., 1074
Powers, W. J., 248A
Prandi, A., 113A, 222A
Prather, R. S., 90A, 3062
Pratt, S. L., 1861
Pratte, J. S., 317A
Pray, C. E., 1628
Prendiville, D. J., 2382, 3030
Preston, R. L., 248A, 257A, 9, 622, 1038, 1881, 2873
Price, E. O., 125A
Price, J. C., 208A
Price, M. A., 299A, 313A
Price, S. G., 110A
Prichard, D., 277A
Prigge, E. C., 3094
Prill-Adams, A., 110A
Primo, R. A., 174A
Prince, B. C., 3681
Prince, T. J., 83A
Pringle, T. D., 5A
Prior, R. L., 270A
Pritchard, G. T., 327A, 341A, 3476
Pritchard, R. H., 49A, 56A, 268A, 9
Proulx, J. G., 805
Provenza, F. D., 130A, 275A, 1651
Pruitt, R. J., 332A
Prusa, K. J., 40A, 78A, 161A
Puchala, R., 32A, 154A, 209A, 251A, 274A, 275A, 173, 565
Pugh, D., 138A
Pumfrey, W. M., 282A
Pursel, V. G., 145A, 211A
Purup, S., 148A, 288A, 3574
Purvis, H. T., 657
Purvis, H. T., II, 48A, 254A

Q

Qian, H., 17A, 173A
Qiu, Y., 218A
Quaas, R. L., 117A
Quandt, B. K., 60A
Quiniou, N., 1567
Quinn, C. A., 57A
Quintal, J. A., 233A
Quintero-Gonzalez, C. I., 253A
Quinton, D. A., 331A
Quinton, M., 2208
Quirk, M. N., 218A
Qureshi, M. A., 186A

R

Radcliffe, J. S., 173A
Radecki, S. V., 152A
Rae, D. O., 239A
Rahe, C. H., 7A
Rahmanian, M. S., 215A
Rajamahendran, R., 301A
Raji, A. M., 205A
Ralphs, M. H., 1651
Ralston, S. L., 129A, 142A, 184A
Ramaekers, P.J.L., 246A
Ramirez, J. L., 218A
Ramirez-Godinez, J. A., 307A, 2888
Ramos de Siqueira, E., 129A
Ramos, J. A., 272A
Ramos, L. P., 264A
Rampacek, G. B., 2A, 27A, 211A, 1147, 1416
Ramsay, T. G., 143A, 69
Ramsey, C. B., 156A, 158A, 160A, 164A, 165A, 166A, 750, 1055, 1368, 1735, 2308, 3633
Ramsey, J., 334A
Ramsey, W. S., 294A, 328A
Randel, R. D., 23A, 24A, 25A, 29A, 119A, 126A, 227A, 228A, 229A, 230A, 234A, 249A, 496, 947, 975, 1167, 2558, 3044, 3223, 3570
Randle, R., 56A
Randle, R. C., 57A
Randolph, J. H., 73A, 174A, 449, 2000
Ranjit, N. K., 339A, 340A
Rankins, D. L., Jr., 31A, 287A
Rantanen, M. M., 78A, 179A
Rasby, R. J., 256A
Rasmussen, L., 11A
Rasmussen, M. A., 122A, 207A
Rasmussen, P. B., 180A
Rath, M., 201A
Rathje, T. A., 41A, 2177
Rathmacher, J. A., 66A, 139A, 185A, 191A, 2272
Rattan, A. G., 146A
Ray, D. E., 298A, 322A
Raymond, S. R., 305A
Razz, R., 155A
Reagan, J. O., 13A
Redfearn, D. D., 598
Redmer, D. A., 91A, 1839
Redmond, L. M., 899
Reecy, J. M., 144A
Reed, J. D., 258, 1516
Reed, R. L., 219A
Reese, A. A., 178
Reese, G. R., 178
Reeves, J. B., III, 202A
Reeves, J. J., 315A, 316A
Reggiardo, C. 322A
Reich, M. M., 3281
Reiling, B. A., 88A, 98A, 986, 3712
Reinhart, G. A., 1099, 1110, 2329, 3639
Reis, P. J., 173
Renaville, R., 113A, 114A, 222A, 225A
Renner, R. A., 305A
Reverter, A., 1208, 2204
Rexroad, C. E., Jr., 112A
Reyes, J., 1741
Reynolds, C., 274A
Reynolds, C. K., 270A
Reynolds, L. P., 91A, 93A, 1839
Rhein-Welker, D., 1381
Rhodes, M. L., 27A
Rice, D. R., 59A
Rice, R. W., 322A
Richards, C. J., 97A, 2438
Richardson, C. R., 197A, 259A, 266A, 271A, 282A, 283A, 286A
Richardson, L., 273A
Richardson, M. E., 221A, 2503
Richert, B. T., 68A, 69A, 72A, 73A, 75A, 76A, 78A, 80A, 81A, 83A, 85A, 171A
Ricke, W. A., 91A
Rickes, E. L., 148A
Riera, T. J., 157A
Riley, M. L., 295A, 315A, 321A, 339A, 3195
Rimbey, N. R., 239A, 308A
Rincon-Urdaneta, E. J., 168A, 169A
Ringkob, T. P., 313A, 318A
Ringwall, K., 323A
Riquelme, E. O., 102A, 106A, 203A, 204A
Risch, E., 155A
Risco, C., 277A
Risley, C. R., 18A
Ritacco, G. M., 139A
Ritchie, A., 131A
Ritchie, H. D., 198A, 236A, 237A
Ritchie, M., 296A
Rivas, M. E., 177A
Robb, E. J., 614
Roberge, S., 223A, 231A
Robert, S., 151A
Roberts, A. J., 87A
Roberts, D. L., 42A, 139A
Roberts, R. A., 60A
Roberts, R. M., 212A
Roberts, T. J., 1019
Robertson, W. M., 316A
Robinson, G., 226A
Robinson, J. A., 516, 526
Robinson, T. F., 138A, 140A, 144A, 160A, 182A, 2493
Robson, R. M., 62A, 65A, 1064
Rocha, A., 947
Roche, J. F., 345, 2382, 2406, 3030
Rode, L. M., 326A, 331A
Rodriguez, A. A., 102A, 106A, 203A, 204A
Rodriguez-Almeida, F. A., 1002, 2579, 2589
Rodriguez, B. T., 277A
Rodriguez, H. F., 24A, 25A
Rodriguez, H. L., 169A
Rodriguez-Marquez, M. C., 189A, 213A
Rodriguez-Matos, C., 157A
Rodriguez, R., 279A
Rodriguez, S., 2609, 2621
Rodriguez-Voigt, A., 169A
Rodríguez-Almeida, F. A., 119A
Roeder, B., 322A
Roeder, R. A., 143A, 282A, 1972, 3216
Roefs, J.P.A., 2254
Roehe, R., 2959
Rogers, J. A., 9
Rogers, J. R., 30A
Rogers, L. B., 337A
Rogers, R. W., 7A
Rogler, J. C., 2026
Rojas, L. X., 1202, 1440
Rollim, R. C., 296A, 335A
Roman, R., 120A
Roman, R. M., 1164
Romans, J. R., 84A, 164A, 1982, 1987
Romero, C., 279A
Rompala, R. E., 186A
Roneker, K. R., 193A
Rorie, R., 8A
Rorie, R. W., 27A, 218A, 229A, 235A
Rosati, A., 119A
Rose, M., 109A, 134A
Rose, R., 71A
Roseler, D. K., 268
Rosenkrans, C. F., Jr., 8A, 9A
Ross, C. R., 68A
Ross, D. A., 182A, 193A
Ross, D. E., 140A
Ross, T. T., 317A, 321A, 328A
Rossi, C., 222A
Rossi, J., 278A
Rossi, J. E., 260A, 261A, 278A
Roth, L. D., 249A
Rothschild, M. F., 39A, 40A, 41A, 312, 313, 921, 1282
Rothschild, M. R., 41A
Rottinghaus, G. E., 49A, 132A, 508, 1954
Rouquette, F. M., Jr., 21A, 22A
Rouse, G., 66A
Rouse, G. H., 60A, 163A
Roussel, J. D., 3287
Rowland, M. S., 27A
Roy, G. L., 224A
Roy, N., 139A, 191A
Rozeboom, D., 174A
Rozeboom, D. W., 50A, 58A, 72A, 134A, 193A, 213A, 214A, 2524
Rubinstein, N. A., 144A
Rude, B. J., 31A, 287A
Ruiz, J., 159A
Rule, D. C., 279A
Rumsey, T. S., 152A
Ruppert, L. D., 94A
Rush, I. G., 57A, 236A, 286A, 328A, 332A
Russell, J. R., 99A
Russell, L. E., 81A
Russell, W. C., 297A, 320A, 3195
Rust, J. W., 3358
Rust, S. R., 99A, 102A, 106A, 148A, 198A, 203A, 204A, 236A, 237A, 285A
Rutherford, M. S., 920
Rutley, B. D., 301A
Ruttle, J. L., 305A
Ruwe-Kaiser, P. J., 64A
Ryan, D. P., 2086, 3687

S

Saacke, R. G., 224A
Saboulard, M., 3195
Saenz, C., 190A
Safranski, T. J., 141A, 142A, 192A , 3241
Sahlu, T., 10A, 32A, 137A, 154A, 209A, 227A, 246A, 251A, 265A, 270A, 274A, 275A, 281A, 173, 565
Sainz, R. D., 149A, 169A, 314A, 315A, 2971
Saito, T., 130A
Sakamoto, T., 1213, 1214
Sakul, H., 120A
Salters, M. A., 290A
Saltman, R. L., 239A
Salyer, C. H., 9A
Samber, J. A., 317A
Samford, M., 889
Samford, M. D., 1396
Sanchez, W. K., 282A, 308A, 341A
Sanders, J., 267A
Sanders, J. O., 140A, 373, 1310
Sanders, S. K., 399
Sano, H., 192, 2054, 3038
Sanson, D. W., 295A, 315A, 321A, 328A, 339A, 2156
Sapa, J., 2249
Sartin, J. L., 138A, 150A, 215A
Sasaki, S., 109A
Sasser, G., 229A
Sasser, R. G., 87A, 91A, 216A, 960, 1914, 2662
Sauer, W. C., 187A, 191A, 311A, 2319, 2364
Savage, R., 51A
Savell, J. W., 13A, 14A, 136A, 156A, 228A, 237A, 253A, 1310, 2043
Sawyer, H. R., 541
Scaglia, G., 35A
Scamurra, R. W., 92A
Scanes, C. G., 142A, 152A, 184A
Schaefer, A. L., 125A, 331A, 764
Schaefer, D. M., 160A, 280A, 2289, 3131
Schaeffer, L. R., 229A
Schafer, D. E., 57A
Schaffner, M. R., 57A
Schake, L. M., 290A
Schalles, R. R., 44A, 45A, 118A
Schamber, R. R., 329A
Schauff, D. J., 204A
Schell, T. C., 17A
Scheller, K. K., 160A
Schelling, G. T., 143A, 282A, 1972, 3216

Schelling, M. E., 143A
Schillo, K. K., 222A, 240A, 77, 954
Schinckel, A. P., 82A, 141A, 162A, 195A, 637, 645
Schlegel, M. L., 148A
Schmidt, G. R., 164A, 3510
Schmidt, S. P., 4A
Schmitt, E.J.-P., 220A, 231A
Schmitt, T. J., 112A
Schmitz C., 39A
Schmitz, C. B., 1282
Schmutz, S. M., 303A
Schneeberger, M., 2213
Schneider, F. A., 295A, 296A, 305A
Schneider, N. R., 256A
Schoenbeck, R. A., 88A, 251A
Schoenemann, H. M., 606
Schofield, P., 3455
Schoknecht, P. A., 139A, 143A
Scholljegerdes, E. J., 205A, 271A
Scholz, A. M., 137A, 162A
Schook, L. B., 39A, 114A, 920
Schoppee, P. D., 222A, 2071
Schouten, W.G.P., 3562
Schrama, J. W., 1658, 2254, 3562
Schrick, F. N., 233A, 2094
Schroeder, A. L., 148A
Schroeder, J. W., 147A
Schrum, A. G., 110A
Schuldt, C. M., 320A
Schuler, R. T., 55A
Schultz, C. M., 61A
Schulze, H., 441
Schumacher, J., 215A
Schutz, D., 330A
Schwartz, R. J., 145A
Schwulst, F. J., 319A
Scott, M., 200A
Seal, C. J., 2146
Sebranek, J. G., 161A
Secrist, D. S., 95A, 97A, 101A, 268A, 281A, 283A, 3152
See, M. T., 3A
Seibert, D. W., 54A
Seidel, G. E., Jr., 232A
Sejrsen, K., 113A, 148A, 288A, 3574
Selavka, C. M., 339A
Seligman, N., 260A
Selinger, L. B., 325A, 326A, 341A
Selk, G. E., 199A
Seman, D. H., 202A
Senger, P. L., 1914
Seo, I. J., 263A, 264A
Serra, A. B., 207A
Serra, S. D., 207A
Serrato Corona, J. S., 255A, 294A
Service, K. L., 245A
Seutin, C., 3269
Seykora, A. J., 42A, 106A
Shackelford, S. D., 13A, 62A, 63A, 406, 2986, 3304, 3333, 3596
Shaffer, J. A., 203A
Shain, D. H., 97A, 102A, 275A, 284A, 2438, 2916, 2931
Shanks, R. D., 53A, 54A, 55A
Shannon, N. H., 316A, 319A, 365
Shapses, S. A., 142A
Sharp, D. C., 226A
Sharp, Z. D., 2A, 147A
Shaw, D. E., 160A
Shaw, D. W., 217A
Shay, T. L., 3790
Shay, T. L., 297A
Shearer, J. K., 266A
Shearer, L. C., 226A
Shelby, D. R., 129A
Sheldon, J. J., 2873
Shell, T. M., 1289, 1303
Shelle, J. E., 250A
Shelton, D. P., 2518
Shelton, M., 243A
Shen, Y., 284A
Shenkoru, T., 154A
Shenton, H. T., 315A
Sherbeck, J. A., 318A, 3613
Sherman, A. D., 55A
Sherwood, H. W., 337A
Shi, J., 68A, 69A, 3341
Shiau, J. C., 130A
Shieh, H.-M., 149A
Shin, H. T., 326A
Shin, I. S., 194A
Shipka, M. P., 310A
Shipley, C. F., 57B, 1390
Shipp, T. E., 12A
Shireman, R. M., 1440
Shirley, J. E., 96A
Shogren, J. F., 1048
Short, R. E., 336A, 199, 2102, 3409
Short, T. H., 109A
Shorthose, R., 3281
Shulaw, W. P., 3182
Shurson, G. C., 50A
Shuster, D. E., 34B
Siddig, F. S., 319A, 329A
Siemens, M. G., 2882
Signer, T., 83A
Signer, T. L., 75A
Silcox, R. W., 304A
Sillence, M. N., 1754, 3281
Silva, A. G., 287A, 288A
Silva, P. J., 305A, 328A
Silvia, W. J., 212A
Silvio, J. M., 175A
Simmen, R. C., 229A
Simmen, R.C.M., 41A, 139A, 1927
Simmons, C. R., 216A
Simmons, N. J., 167A, 168A
Simms, D. D., 133A, 237A, 240A, 1595
Simoes, M. J., 29A, 3570
Simon, D., 164A
Simpson, R. B., 8A, 10A, 28A, 169A, 255A, 256A, 1552, 3051
Sims, M. D., 174A
Sims, P. L., 2893
Sindt, M. H., 229
Singh, K., 167A, 168A
Singh, K. K., 167A, 168A
Skaggs, C. L., 289A
Skelley, G. C., 120A, 121A, 198A
Skinner, D. Z., 201A
Skottner, A., 143A
Slepetis, R., 225A
Slusark, J. A., 143A
Slyter, A. L., 245A
Slyter, L. L., 262A
Smedley, K. O., 606
Smith, B. S., 12A, 158A
Smith, C., 2208
Smith, C. W., 67A
Smith, D., 239A
Smith, G. C., 164A, 300A, 317A, 318A, 399, 3235, 3310, 3317, 3510, 3613
Smith, J. E., 69A, 3341
Smith, J. G., 314A
Smith, J. M., 56A, 233A, 234A, 269A
Smith, J. W., 68A, 69A, 81A, 83A, 205A
Smith, J. W., II, 72A, 73A, 75A, 76A, 80A, 83A, 171A
Smith, K. J., 266A, 282A, 283A
Smith, M. C., 1340
Smith, M. E., 2687
Smith, M. F., 89A, 217A, 233A
Smith, M. W., 3743
Smith, P. A., 190A
Smith, R. G., 26A, 30A, 148A, 242A
Smith, R. K., 43A
Smith, S. B., 140A, 146A, 148A, 1310
Smith, S. C., 96A
Smith, S. M., 3325
Smith, S. T., 53A, 54A
Smith, T. K., 2375
Smuts, M., 209A, 207, 931
Snedegar, J. A., 50A, 193A
Snelling, W. M., 114A, 299A, 993
Sneyers, M., 113A, 225A
Snijders, S., 3687
Snitzer, L. S., 310A
Snowder, G. D., 7A, 120A, 138A, 297A, 330A, 334A, 393, 1227, 1559
Snyder, J., 309A
Socha, T., 162 A
Soder, K. J., 320A, 2853
Soede, N. M., 3022
Sofos, J. N., 164A, 3510
Sohaili, I. (A)., 48A
Sohn, K. S., 3657
Solomon, M. B., 159A, 2282, 3447
Song, B. C., 263A
Song, H., 137A, 162A
Sonon, R. N., Jr., 200A
Soofi-Siawash, R., 329A
Sorensen, K. N., 296A
Sorensen, S. J., 325A, 327A
Sörensson, J., 210A
Sosnicki, A., 161A
Sousadias, M. G., 2375
Southern, L. L., 18A, 72A, 86A, 172A, 181A, 189A, 195A, 265A, 1123, 1746, 1793, 2033, 2694
Sowell, B. F., 294A, 327A, 337A
Sower, A. F., 85A, 189A
Sowinski, J. S., 53A, 65A
Spaeth, C. W., 319A
Spain, J. N., 231A
Spanier, A. M., 158A
Spears, J. W., 33A, 186A, 266A, 571, 2721
Specht-Overholt, S. M., 164A
Speck, P. A., 167A, 168A
Spell, A. R., 54A, 56A, 254A
Spencer, T. E., 2A
Spicer, L., 305A
Spicer, L. A., 249A
Spicer, L. J., 8A, 188A, 219A, 220A, 234A, 1152, 1776, 2390, 3657, 3719
Spicer, M. T., 188A
Spiers, D. E., 49A, 132A, 141A, 150A, 1954
Spike, P. L., 41A
Spitzer, J. C., 23A, 1251
Sponenberg, D. P., 123A
Spring, P., 33A, 310A
Sprott, L. R., 26A, 242A
Spurlock, M. E., 64A, 145A
St. Clair, E. N., 222A
St. Jean, G., 94A, 101A, 260A, 269A, 271A, 275A, 1187
Stafford, S. D., 100A
Stahly, T. S., 69A, 73A, 81A, 84A, 85A, 193A
Staigmiller, R. B., 322A, 199, 3409
Stalder, K. J., 42A
Stallings-Mann, M., 212A
Stanford, K., 324A
Stanisiewski, E. P., 174A
Stanko, R. L., 217A
Stanley, R., 331A
Stanton, T. L., 330A, 331A
Staples, C. R., 230A
Stark, C. R., 757, 2564
Starkey, C. W., 19A
Stateler, D. A., 268A, 3078
Staten, N. R., 147A
Stear, M. J., 3A
Steckler, T. L., 90A
Steele, N. C., 2282
Stegelmeier, B. L., 208A
Stein, H. H., 79A
Stellflug, J., 960
Stenquist, N. J., 314A
Stephas, E. L., 77A
Sterle, J. A., 64A, 142A, 247A, 2980
Stern, M. D., 1459, 1819
Stetter Neel, J. P., 3094
Stevenson, J. S., 89A, 220A, 232A, 234A, 3743
Stewart, A., 209A
Stewart, N. D., 78A
Stewart, R. E., 219A, 220A, 240A, 3719
Stick, D. A., 139A
Sticker, L. S., 35A, 136, 1424, 3696
Stiffler, L., 321A
Stilborn, R. P., 9
Stobart, R. H., 241A, 297A, 320A, 1227
Stock, R. A., 97A, 102A, 104A, 275A, 284A, 39, 229, 353, 360, 2438, 2916, 2931, 3111, 3437
Stoecker, B. J., 188A
Stokes, S. R., 65A
Stokka, G. L., 236A
Stone, R. T., 43A
Stone, W. C., 268
Stormshak, F., 3274
Stouffer, J. R., 162A, 29
Stowell, J. E., 158A
Strasia, C. A., 268A, 281A, 21, 45
Strause, T., 268A
Streeter, M. N., 34A, 1196, 2141, 3103
Strickland, G. L., 199A
Strickland, J. R., 899

Stricklin, W. R., 130A
Stroda, S., 157A
Stromer, M. H., 65A
Stroup, W. W., 39, 583, 2631
Struthers, J. J., 127A
Stuedemann, J. A., 202A, 208A
Su, D.-R., 136A, 2043
Sukhdeo, M.V.K., 129A
Suleiman, A., 338A, 340A
Sun, H. S., 40A, 1530
Sunden, S.L.F., 43A
Sunvold, G. D., 1099, 1110, 2329, 3639
Surber, L. M. M., 294A
Susin, I., 3199, 3206
Sutherland, W. D., 87A, 91A, 216A, 2662
Sutton, A. L., 73A, 3384
Sutton, D. S., 66A
Sutton, J., 274A
Svejcar, T. J., 3752
Swain, S., 37A
Swanepoel, F.J.C., 45A, 154A, 228A
Swanson, J. C., 290A, 2744
Swanson, K., 93A
Swanson, K. C., 93A
Swanson, L. V., 2860
Swantek, M. P., 50A
Swantek, P. M., 153A, 170A, 191A, 215A
Swartz, D. R., 318A
Swartz, H. A., 51A, 88A
Sweatt, C. R., 146A
Swecker, W. S. Jr., 257A
Sweeny, C. A., 147A
Swencki, B. S., 145A
Swenson, A. G., 332A
Swenson, S. G., 81A, 193A
Swensson, E. J., 294A, 332A, 336A
Swift, P., 345
Swift, S. M., 282A
Swingle, R. S., 267A
Swinkels, J.W.G.M., 246A, 3562
Swinker, A., 321A
Swinker, A. M., 127A
Swinney, D. L., 101A
Swope, R. L., 249A
Szekely, E., 148A
Szekely, K., 113A

T

Tabe, L. M., 2752
Taboada, E., 1131
Tait, R. M., 333A, 340A
Takahashi, H., 192, 2054,3038
Takaki, D. S., 284A
Taliaferro, K. W., 305A
Tamayo, M. S., 1239
Tamminga, S., 273A
Tan, J., 163A
Tanaka, Y., 230A
Taniguchi, K., 237
Tank, P. A., 919
Tanner, M. K., 321A
Tano, S., 3038
Tatum, J. D., 13A, 164A, 300A, 317A, 399, 3235, 3310, 3317, 3510, 3613
Tavakkolian, J. S., 112A
Taylor, A. N., 321A
Taylor, G. J., 154A
Taylor, J. F., 140A
Taylor, J. L., 67A
Taylor, L. E., 2009
Taylor, R. G., 1351
Taylor, R. K., 203A
Taylor, T., 264A
Taylor, T. L., 146A, 295A, 339A
Taylor, W. G., 324A
Teh, T. H., 115A, 281A
Telab, H. M., 281A
Tembei, J. N., 183A
Tempelman, R. J., 3673
ten Napel, J., 120A, 2193
Tengman, C. L., 58A
Terashima, Y., 192, 2054, 3038
Terrill, M., 309A
Tesfai, K., 270A, 281A, 173
Tess, M. W., 114A, 294A
Tewolde, A., 124A
Thacker, B., 134A
Thaela, M.-J., 3402
Thatcher, W. W., 220A, 230A, 231A
Theis, R. L., 156A
Theurer, B., 267A
Théwis, A., 221
Thibodeaux, J. K., 3287
Thomas, D. L., 65A, 123A, 1602
Thomas, E. E., 273A
Thomas, J. D., 317A
Thomas, M. G., 2A, 147A
Thomas, V. M., 295A, 320A, 322A, 2853
Thompson, C. E., 4A, 120A, 121A, 198A
Thompson, D. L., Jr., 10A, 37A, 215A, 242A, 265A, 136, 1123, 1424, 3673, 3696
Thompson, F. N., 208A
Thompson, G. B., 255A
Thompson, J. M., 297A, 316A, 2860, 3274
Thompson, K. N., 2513
Thompson, P., 253A
Thompson, V. F., 1351
Thomson, B. C., 167A, 168A
Thomson, D. U., 248A, 257A
Thomson, J. E., 2340
Thoreson, D. R., 53A, 58A
Thrift, F. A., 4A, 291A
Tielen, M.J.M., 1544
Tier, B., 1609
Tilton, J. E., 191A, 215A
Tilton, S. L., 86A, 3062
Timms, L. L., 88A, 90A, 93A, 107A
Tipton, N. C., 237A
Titgemeyer, E., 94A, 204A
Titgemeyer, E. C., 94A, 96A, 101A, 196A, 260A, 269A, 271A, 275A, 1099, 2329
Tjardes, K. E., 104A
Tock, R. W., 197A, 282A
Tokach, M. D., 55A, 68A, 69A, 72A, 73A, 75A, 76A, 78A, 80A, 81A, 83A, 85A, 171A, 2647, 3341, 3358, 3392, 3666
Tolkamp, B. J., 195A
Tomkins, T., 53A
Tondolo, A., 222A
Tong, A.K.W., 314A, 316A
Tong, L. J., 56A
Tonn, S. A., 91A
Tonner, E., 3574
Toombs, R. E., 332A
Torell, D. J., 135A
Torrance, T. S., 50A
Torrent, J., 334A, 1208
Torrentera, N., 169A, 315A
Tosh, J. J., 118A
Touchette, K. J., 70A, 71A, 171A
Tovar Luna, I., 255A, 294A, 328A, 333A
Towne, G., 204A
Townsend, E. C., 2094, 3094
Townsend, R. S., 241A, 297A, 320A
Traub-Dargatz, J., 321A
Traxler, M. J., 1888
Treacher, R., 341A
Trei, J. E., 249A
Trenkle, A., 66A, 98A
Tressler, C. J., 381
Trigg, T., 3543
Trillat, G., 2249
Trinity, L. J., 90A
Triplett, B., 947
Triplett, B. L., 3223
Trottier, N. L., 85A, 185A, 57B, 1086, 1390
Trout, W. E., 212A
Troxel, T. R., 5A, 239A
Troxler, T. M., 26A
Tsou, M.-J., 11A
Tuck, K., 52A
Tucker, H. A., 216A, 74B
Tuggle, C., 39A
Tuggle, C. K., 40A, 41A, 1282
Tumbleson, M. E., 3552
Turk, J. R., 74A
Turner, H. A., 322A
Turner, J. T., 1396
Turner, J. W., 140A
Turner, N. D., 151A, 1
Turpin, J. M., 4A
Turzillo, A. M., 1784
Twagiramungu, H., 224A, 805, 3141
Tyler, H. D., 92A, 107A
Tyler, P. J., 32A

U

Ueckert, J. R., 93A
Unruh, J. A., 157A, 2295, 3392
Upchurch, W. G., 247A
Usmani, R. H., 273A
Utley, P. R., 34A, 200A
Utley, R. V., 2A, 27A
Uusitalo, R., 82A

V

Vaage, A. S., 3775
Vági, J., 112A
Vagnoni, D. B., 1793
Vaiman, D., 3259
Vallet, J. L., 211A, 214A, 229A
van Barneveld, R. J., 785
van Diemen, P. M., 1658
Van Diepen, J.Th.M., 213A
van Doorn, C.E.A., 1544
Van Eenaeme, C., 225A
van Engelen, M.A.J., 1948
van Heugten, E., 70A, 186A
Van Horn, H. H., 248A, 266A, 273A
Van Kampen, K. R., 309A
Van Keuren, R. W., 3447
Van Koevering, M. T., 97A, 101A, 268A, 21
van Leeuwen, P., 441
Van Lunen, T. A., 137A, 181A
Van Pelt, B. G., 286A, 332A
Van Praag, R., 154A
Van Saun, R. J., 322A
Van Soest, P. J., 3519, 3527
Van Tassell, C. P., 46A
Van Veen, J., 322A
Van Vleck, L. D., 42A, 43A, 45A, 46A, 47A, 118A, 119A, 1002, 2579, 2589, 2940, 3253, 3269
Van Vuuren, A. M., 265A
van Zyl, C. M., 45A
van den Berg, J.W.O., 118, 441
van den Hemel-Grooten, H.N.A., 2272
van der Peet-Schwering, C.M.C., 247A
van der Werf, J.H.J., 1933, 2220
van der Wilt, F. J., 247A
Vanderwall, D. K., 321A
Vann, R. C., 7A, 148A, 3044
VanRaden, P. M., 112A
Vanthuyne, G., 202A
Vanzant, E. S., 100A, 101A, 196A, 260A, 1187, 1595
Varel, V. H., 578, 1271
Varga, G. A., 203A, 253A, 261A, 267A
Varner, M. A., 58A
Vaske, D. A., 40A, 313, 921
Vatzias, G., 214A
Vaughan, L., 3030
Vavra, M., 134A
Veenhuizen, J. J., 215A, 1038
Velasquez, J. B., 1202
Velasquez-Pereira, J., 277A
Velásquez, J. D., 325A
Velleman, S. G., 295A
Vellidis, G., 11A
Venner, J. J., 45A
Vera-Avila, H. R., 25A, 228A
Vermeer, H. M., 247A
Vermorel, M., 552
Vernay, M., 128
Vernon, R. K., 1152
Verstegen, M.W.A., 246A, 118, 441, 1658, 2254, 2272, 2355
Vestergaard, K. S., 128A
Vestergaard, M., 113A, 148A, 3574
Veum, T. L., 76A, 175A, 187A, 188A, 212A, 1741
Vicini, J. L., 240A
Vienonen, A. J., 223A
Vieselmeyer, B. A., 157A
Villalba, J. J., 275A, 277A
Vincent, A., 109A
Vincent, D., 230A
Vincent, D. L., 289A, 1289
Virden, A. M., 318A
Virtanen, E., 82A
Viswanathan, T. V., 36A
Vizcarra, J. A., 29A, 223A, 234A
Vogel, M. K., 190A, 204A

Volesky, J. D., 2609, 2621
von Borell, E. H., 127A
Von Keyserlingk, M., 330A
VonTungeln, D. L., 35A, 238A
Vorderstrasse, T. L., 44A
Vosen, T. R., 12A
Vreman, K., 213A

W

Waggoner, D. B., 3178
Waggoner, D. K., 3178
Wagner, D. G., 199A
Wagner, J., 637, 645
Wagner, J. J., 56A
Wagner, J. R., 141A, 162A
Wakefield, T., 159A
Waldron, D. F., 228A, 253A
Walker, J. A., 175A, 270A, 3766
Walker, J. S., 143A
Walker, P. M., 107A, 283A
Walker, R. D., 71A, 76A, 981
Wall, R. J., 145A, 211A
Wallace, J. D., 205A
Wallace, R. J., 1811
Wallace, W. T., 239A
Waller, J. C., 279A
Waller, S. S., 598
Wallins, G., 302A
Walsh, G. A., 1074
Walsh, S. D., 12A
Walter, J. P., 5A
Walters, J. L., 336A, 338A
Walton, J. S., 223A, 226A
Walton, J. W., 226A, 231A
Walz, L. S., 35A, 258A, 272A
Wanderley, R. C., 183A, 184A, 287A, 288A
Wang, B. S., 149A
Wang, C. S., 117A
Wang, L., 39A, 40A, 41A
Wang, P. C., 137A, 162A
Wang, R. J., 115A, 281A
Wang, S., 226A, 227A, 304A
Wang, T., 39A, 114A
Wang, Z., 18A, 278A
Wang, Z. S., 260A, 261A, 278A
Waninge, A., 381
Wannemuehler, M., 159
Wansley, R. G., 26A
Ward, D. R., 118A
Ward, J. D., 33A, 186A, 266A , 571
Ward, T. L., 18A, 72A, 172A, 189A, 265A, 1123, 1746, 2033
Wardell, K., 249A
Wardley-Richardson, T., 2752
Warner, C. M., 40A, 312, 313, 921
Warren, E. J., 92A, 147A
Warren, J. T., 1012
Warren, W. C., 147A, 1529
Warrington, B. G., 30A, 119A
Washburn, S. P., 220A, 2071
Watkins, B. A., 1372
Watkins, S., 3069
Watson, D. G., 57A
Wattiaux, M. A., 258
Weaber, D. L., 332A
Weaver, E. M., 81A
Weavers, R. L., 50A, 72A, 193A, 198A
Webb, K. E., Jr., 269A, 270A, 3464
Webb, R., 230A
Webel, D. M., 82A
Weber, D. W., 291A
Weber, G. M., 2727
Weech, B. L., 57A, 233A, 241A
Weems, C. W., 229A, 230A, 289A
Weems, Y. S., 229A, 230A
Weesner, G. D., 128A
Wehrman, M. E., 89A, 233A
Wei, G. S., 302A
Wei, M., 2220
Weichenthal, B., 332A
Weichenthal, B. A., 286A
Weide, L. R., 61A
Weigl, R., 215A
Weigl, R. M., 191A
Weingardt, K., 138A
Weingardt, R., 764
Weldon, W. C., 250A
Welsh, T. H., Jr., 8A, 126A, 153A, 228A, 230A
Welty, S., 95A
Welty, S. D., 223A
Wen, S. K., 115A
Werth, L. A., 3189
Wertz, S. A., 283A
Weselake, R. J., 306A, 317A
Wesen, D. P., 1552
Wessels, R. H., 101A, 271A, 275A
Wesson, C.A.R., 960
West, C. P., 261A
West, R. L., 5A, 13A, 28A
Westberg, H. H., 276A
Westendorf, M. L., 272A, 1628
Wester, T. J., 1674, 3111
Weston, M. E., 285A
Weström, B. R., 3402
Wettemann, R. P., 23A, 29A, 48A, 223A, 234A, 63, 657, 1251, 2390
Weyerts, P. R., 26A, 165A
Whang, K. Y., 83A, 182A
Whanger, P. D., 322A
Wheaton, J. E., 1433
Wheeler, M. B., 39A, 42A, 114A, 139A, 311, 738, 920
Wheeler, M. D., 215A
Wheeler, T. L., 13A, 62A, 63A, 1725, 1735, 2986, 3304, 3333, 3596
Whisnant, C. S., 137A
Whitaker, A., 180A
White, B. A., 311, 2347
White B. D., 722
White, B. R., 738
White, D. R., 229A, 960
White, M. E., 85A, 144A, 189A, 69
White, R. G., 102A, 381
White, T. W., 35A, 258A, 265A, 272A
Whittier, J. C., 56A, 57A, 233A, 241A
Whitworth, K. M., 283A
Wicke, M., 170A
Wiechetek, M., 207A
Wiedmeier, R. D., 314A, 336A, 338A
Wiedmeier, W. D., 1651
Wiggers, D. L., 254A
Wilcke, W. F., 981
Wilcox, C. J., 120A, 1164
Wilde, R., 303A
Wildeus, S., 124A, 252A
Wilkerson, V. A., 583
Wilkie, A. C., 248A
Wilkie, B. N., 223A
Wilkinson, N., 95A, 276A
Wilkinson, N. S., 276A, 277A, 1202, 1440
Will, P. A., 165A
Willard, J. M., 960
Willard, S. T., 23A, 29A, 227A, 230A, 234A, 249A, 496
Willham, R. L., 45A, 1002
Williams, A. R., 4A
Williams, C. B., 167A, 665, 674, 686, 2609, 2903
Williams, D. L., 1888
Williams, G. L., 217A, 241A, 2086
Williams, J. E., 57A, 67A, 205A, 271A, 3552
Williams, M. J., 1881
Williams, N. H., 69A, 81A, 84A, 193A
Williams, R. E., 163A
Williams, R. H., 121A, 198A
Williams, S., 399
Williams, S. E., 14A, 95A, 163A
Williams, S. N., 164A, 1440
Williamson, J. K., 321A, 323A
Willingham, T. D., 253A
Willis, H. J., 305A
Willms, C. L., 277A
Wilson, D. E., 45A, 60A, 66A, 163A
Wilson, E., 128A
Wilson, E. R., 60A, 61A
Wilson, J. J., 1310
Wilson, L. L., 238A, 254A
Wilson, M. E., 981
Wilson, S. J., 231A
Winder, J. A., 298A
Winger, H. Q., 335A
Wise, J., 315A
Wise, J. W., 13A, 158A
Wise, T., 30A
Witt, M., 283A
Wittum, T. E., 238A, 2113
Wofford, P. D., 7A, 20A
Wold, J. E., 104A
Woldeghebriel, A., 22A
Wolf, J. L., II, 16A
Wolfe, D. D., 7A
Woltmann, M. D., 1776, 1940
Wolverton, C. K., 77A, 86A, 172A, 69, 2631
Wolynetz, M. S., 276A
Womack, W., 159A
Wondra, J. K., 2564
Wondra, K. J., 414, 421, 427, 757
Wondra, K. R., 427
Wong, E. A., 269A, 1152
Wood, C. H., 176A
Wood, C. M., 457, 1381
Wood, N. J., 629
Woodard, T. O., 251A
Woods, B. L., 240A, 954
Woods, C., 235A
Woods, C. F., 218A, 229A
Woods, T. L., 67A
Woodward, B. W., 111A, 133A
Woollen, N. E., 238A
Worrell, M. A., 4A, 120A, 121A, 198A
Wray-Cahen, D., 274A
Wray, M. I., 236A, 9
Wright, J. T., 146A, 1147
Wright, R. W., 315A, 316A
Wright, S.B.M., 335A
Wright, S. D., 276A
Wright, T. E., 285A
Wu, C. K., 1055, 1368, 3633
Wulf, D. M., 399, 1982, 1987
Wulf, D. L., 300A
Wunder, W. W., 53A
Wyatt, W. E., 242A, 1793
Wyles, J., 237A

X

Xie, Y. R., 315A
Xiong, S., 111A
Xiong, Y. L., 157A
Xu, S., 699
Xu, W. X., 630
Xu, Z., 324A

Y

Yaakub, H., 3687
Yambayamba, E. S. K., 313A
Yan, Z., 137A, 162 A
Yang, H., 76A
Yang, S. K., 130
Yang, W. Z., 326A
Yanke, L. J., 324A, 326A
Yaremcio, B., 338A
Yates, D. A., 3437
Yavas, Y., 231A
Yeager, J. D., 295A
Yelich, J. V., 223A, 2390
Yemm, R. S., 138A, 332A
Yen, J. T., 66A, 139A, 191A, 1318, 1327, 2272, 3294, 3585
Yépez, P. G., 197A
Yi, Z., 17A, 174A
Yin, D., 145A
Yokoyama, M. T., 102A, 106A, 203A, 204A
Yong, Y., 143A
Young, D. B., 332A
Young, J. V., 334A
Young, L. D., 711, 3534
Young, M. A., 200A
Young, O. A., 3069
Younglove, G. A., 323A
Ysunza, F., 273A
Yu, S., 151A
Yu, T.-P., 1282

Z

Zabielski, R., 210A, 274A
Zak, L. J., 306A
Zakhartchenko, V., 221A
Zaleski, H., 289A
Zalesky, D. D., 48A
Zaman, M. S., 324A
Zamora, G., 190A
Zanella, E., 233A
Zaunbrecher, G. M., 137A
Zayas, J. F., 156A
Zeece, M. G., 67A
Zeitoun, M. M., 25A
Zembayashi, M., 3325
Zeng, Z-B., 110A
Zeroual, A., 224A
Zhang, H., 60A
Zhang, H. M., 111A, 115A
Zhang, J., 2655
Zhang, Q., 1954
Zhang, Y., 2474
Zhang, Z. Y., 281A
Zhou, J. Z., 130A
Zimbelman, R. G., 1628, 3178
Zimmerman, D., 78A, 82A

Zimmerman, D. R., 64A, 81A, 84A, 127A, 161A, 191A, 145, 159, 472, 1077, 3369, 3649
Zimmerman, S. D., 295A
Zinn, R. A., 261A, 278A, 280A, 284A, 286A, 1239, 1246
Zinn, T. E., 284A
ZoBell, D. R., 331A
Zoellner, K. O., 45A
Zollers, W. G., 67A
Zollinger, W. A., 291A
Zuidhof, M. J., 308A
Zyla, K., 76A, 187A, 188A

SUBJECT INDEX FOR VOLUME 73 (JANUARY THROUGH DECEMBER 1995)[1,2]

A

α-Amylase
Influence of Ruminal or Abomasal Starch Hydrolysate Infusion on Pancreatic Exocrine Secretion and Blood Glucose and Insulin Concentrations in Steers, 3766
Abomasal Infusion
140A
Abortion
Abortifacient Response and Plasma Vasoconstrictive Activity After Feeding Needles from Ponderosa Pine Trees to Cattle and Sheep, 2102
Endocrine Responses in Cows Fed Ponderosa Pine Needles and the Effects of Stress, Corpus Luteum Regression, Progestin, and Ketoprofen, 198
Absorption
270A
Absorption of L-Carnosine, L-Methionine, and L-Methionylglycine by Isolated Sheep Ruminal and Omasal Epithelial Tissue, 3464
Adaptation to Small Intestinal Starch Assimilation and Glucose Transport in Ruminants, 1828
Effect of Intravenous Glucose Infusion on Metabolism of Portal-Drained Viscera in Sheep Fed a Cereal/Straw-Based Diet, 2146
Influence of Calf Genotype on Colostral Immunoglobulins in *Bos taurus* and *Bos indicus* Cows and Serum Immunoglobulins in Their Calves, 3044
Mineral and Nitrogen Balance in Lambs Implanted with Zeranol, 3785
The Effects of Ruminal Acidosis on Volatile Fatty Acid Absorption and Plasma Activities of Pancreatic Enzymes in Lambs, 3111
Accountability
Changing Paradigms in Animal Agriculture: Addressing Animal Issues in Washington by a Professional Society, 3178
Accuracy
Technical Note: Changes in Genetic Predictions Between Subsequent Evaluations, 2204
Acetaldehyde
279A
Acetate
204A
Insulin and(or) Dexamethasone Regulation of Glucose and Acetate Utilization in Ovine and Bovine Adipose Tissue Explants Incubated for Seven Days, 2063
Acidosis
130A
Effect of Level and Type of Fat on Subacute Acidosis in Cattle Fed Dry-Rolled Corn Finishing Diets, 2438
Effect of Monensin and Monensin and Tylosin Combination on Feed Intake Variation of Feedlot Steers, 39
Efficacy of Laidlomycin Propionate to Reduce Ruminal Acidosis in Cattle, 3445
Feeding Wet Corn Gluten Feed to Reduce Subacute Acidosis in Cattle, 2931
The Effect of Slaframine on Salivary Output and Subacute and Acute Acidosis in Growing Beef Steers, 516
The Effects of Ruminal Acidosis on Volatile Fatty Acid Absorption and Plasma Activities of Pancreatic Enzymes in Lambs, 3111
Acremonium
199A
Acremonium in Fescue and Ryegrass: Boon or Bane? A Review, 881
Analysis of Endophyte Toxins: Fescue and Other Grasses Toxic to Livestock, 871
Equine Fescue Toxicosis: Signs and Solutions, 899
Temperature-Dependent Responses of Rats to Ergovaline Derived from Endophyte-Infected Tall Fescue, 1954
The Effects of Fescue Toxicosis on Beef Cattle Productivity, 889
Toxic Endophyte-Infected Tall Fescue and Range Grasses: Historic Perspectives, 861
Actin
144A
Active-Immunization
149A
Active-Learning
289A
Active Site
174A
Activity
Causes of Reduced Survival of Neonatal Pigs by Medium-Chain Triglycerides: Blood Metabolite and Behavioral Activity Approaches, 2019
Adaptability
124A
Adaptation
Alteration of Heat Production in Young Calves in Relation to Posture, 2254
Regulation of Organic Nutrient Metabolism During Transition from Late Pregnancy to Early Lactation, 2804
Additives
203A, 204A, 248A
Adenylate Cyclase
145A
ADG
249A
Adipocytes
145A, 146A, 209A
Glucagon Binding to Receptors on the Surface of Chicken Adipocytes, 728
Glucocorticoid Receptor Binding in Porcine Preadipocytes During Development, 722
Silage or Limit-Fed Grain Growing Diets for Steers: II. Empty Body and Carcass Composition, 2621
Adipose Tissue
145A
β-Adrenergic Receptor Subtype Transcripts in Porcine Adipose Tissue, 1962
Insulin and(or) Dexamethasone Regulation of Glucose and Acetate Utilization in Ovine and Bovine Adipose Tissue Explants Incubated for Seven Days, 2063
Prenatal Androgenization of Lambs: II. Metabolism in Adipose Tissue and Liver, 1701
The Onset of Maternal Diabetes in Swine Induces Alterations in the Development of the Fetal Preadipocyte, 69
Adipsin
136A
Adjuvants
Effects of Single or Primary Plus Booster Prostaglandin $F_{2\alpha}$ Immunization Regimens on Immune, Ovarian, and Growth Responses of Heifers, 2406
ADL
204A
Aeration
181A
Aerobic Stability
204A
Aflatoxin
283A
Africander
Comparison of Landim and Africander Cattle in Southern Mozambique: I. Body Weights and Growth, 3519

[1]Page numbers followed by A refer to the 1995 Abstracts issue, J. Anim. Sci. 73(Suppl. 1).

[2]Page numbers followed by B refer to *The Biology of Lactation in Farm Animals*, J. Anim. Sci. 73(Suppl. 2).

Comparison of Landim and Africander Cattle in Southern Mozambique: II. Female Fertility, Reproduction, and Beef Offtake, 3527
Age
224A, 229A, 242A, 256A
Effects of Slaughter Age on Meat Tenderness and USDA Carcass Maturity Scores of Beef Females, 3304
Aggression
128A
Aging
156A, 157A, 158A, 167A
Agricultural Policy
243A
AI
224A
AIMAX
Biogenic Amines in the Hypothalamus of Rats After Diethyldithiocarbamate or AIMAX Treatment, an Alternative for Norepinephrine Depletion, 1147
Air Quality
Environmental Considerations of Livestock Producers, 2733
Alfalfa
201A, 202A, 206A, 258A, 259A
A Biotechnological Approach to Improving the Nutritive Value of Alfalfa, 2752
Desirable Characteristics of Forage Legumes for Improving Protein Utilization in Ruminants, 2760
Influence of Processing Supplemental Alfalfa on Intake and Digestion of Dormant Bluestem-Range Forage by Steers, 1187
Pasture Management Strategies for Reducing the Risk of Legume Bloat in Cattle, 1493
Algorithms
Multistage Selection for Maximum Economic Return with an Application to Beef Cattle Breeding, 699
Alien Cohabitation
241A
Alkaloids
Analysis of Endophyte Toxins: Fescue and Other Grasses Toxic to Livestock, 871
Allometric Relationship
141A
Alpha Lactalbumin
114A
Alpha-Tocopherol
164A
Bioavailability of Various Vitamin E Compounds for Finishing Swine, 490
The Effect of Excessive Dietary Vitamin A on Performance and Vitamin E Status in Swine Fed Diets Varying in Dietary Vitamin E, 1093
Aminergic Neurons
216A
Amino Acids
140A, 173A, 181A, 182A, 183A, 190A, 191A, 270A, 271A, 274A, 275A
Absorption of L-Carnosine, L-Methionine, and L-Methionylglycine by Isolated Sheep Ruminal and Omasal Epithelial Tissue, 3464
Determination of Apparent Ileal Amino Acid Digestibility in Barley and Canola Meal for Pigs with the Direct, Difference, and Regression Methods, 2364
Effect of Feeding Reduced Protein, Amino Acid-Supplemented Diets on Nitrogen and Energy Balance in Grower Pigs, 3000
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: I. Digestion of Nitrogen and Amino Acids, 824
Estimation by Regression Analysis of Endogenous Amino Acid Levels in Digesta Collected from the Distal Ileum of Pigs, 2319
Feedlot Performance and Carcass Characteristics of Holstein Steers as Affected by Source of Dietary Protein and Level of Ruminally Protected Lysine and Methionine, 3503
Lysine Oxidation by Growing Pigs Receiving Diets Containing Free and Protein-Bound Lysine, 785
Sorghum Amino Acid-Supplemented Diets for the 50- to 100-Kilogram Pig, 1746
Supplemental Protein Sources for Steers Fed Corn-Based Diets: I. Ruminal Characteristics and Intestinal Amino Acid Flows, 1466
Technical Note: Tissue Residues of Mimosine and 2,3-Dihydroxypyridine After Intravenous Infusion in Goats, 172
The Effects of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: II. Protein and Amino Acid Digestion, 2131
True Digestibility of Amino Acids and Protein in Pigs with ^{13}C as a Label to Determine Endogenous Amino Acid Excretion, 1077
Amitraz
134A
Ammonia
202A, 205A, 271A
Ammoniated Feeds
206A
Monensin and Ammoniation or Urea Supplementation of Bermudagrass Hay Diets for Steers, 1793
Protein Supplementation of Ammoniated Wheat Straw: Effect on Performance and Forage Utilization of Beef Cattle, 1595
Urea Ammoniation Effects on the Feeding Value of Guineagrass (*Panicum maximum*) Hay, 3085
Amylase
270A
Anabolics
166A, 284A
Alterations in Metacarpal Characteristics in Steers and Heifers Sequentially Implanted with Synovex® from 45 Days of Birth, 55
Comparative Effectiveness of Somatotropin and Anabolic Steroids in Feedlot Steers, 1038
Anaerobic
197A, 248A
Analytical Methods
Analysis of Endophyte Toxins: Fescue and Other Grasses Toxic to Livestock, 871
Androgens
Effect of Prenatal Androgenization on Performance, Lactation, Carcass, and Sensory Traits of Heifers in a Single-Calf Heifer System, 986
Andropogon gerardii
Ruminal Degradation of Switchgrass, Big Bluestem, and Smooth Bromegrass Leaf Proteins, 598
Anesthesia
Effects of Preslaughter Muscle Exercise on Muscle Metabolism and Meat Quality Studied in Anesthetized Pigs of Different Halothane Genotypes, 108
Influence of Preslaughter Muscle Temperature on Muscle Metabolism and Meat Quality in Anesthetized Pigs of Different Halothane Genotypes, 96
Anestrus
215A, 223A, 226A, 234A
Immunization of Heifers Against Gonadotropin-Releasing Hormone: Antibody Titers, Ovarian Function, Body Growth, and Carcass Characteristics, 2382
Passive Immunization of Ewes Against an Inhibin-Like Peptide Increases Follicle-Stimulating Hormone Concentrations, Ovulation Rate, and Prolificacy in Spring-Mated Ewes, 1433
Angiogenesis
Utero-Placental Vascular Development and Placental Function, 1839
Angora Goats
137A, 154A, 209A, 251A, 253A, 274A, 275A
Angus
199A, 238A
Lipogenic Activity of Intramuscular and Subcutaneous Adipose Tissues from Steers Produced by Different Generations of Angus Sires, 1310
Animal Agriculture
290A
Animal Breeding Methods
Maximizing Selection Efficiency for Categorical Traits, 1933
Animal By-products
Copper Bioavailability in Pork Liver and in Various Animal By-Products as Determined by Chick Bioassay, 799
Animal Drugs
Data Integrity–Conduct of Clinical Investigations: University Investigator Perspective, 622
Animal Fat
183A

Animal Health
The Conduct of Clinical Trials and Good Clinical Practices: The Sponsor's Perspective, 614
Animal Models
Estimation of Non-Additive Genetic Variances in Three Synthetic Lines of Beef Cattle Using an Animal Model, 1002
Multiple-Trait Genetic Evaluation for One Polychotomous Trait and Several Continuous Traits with Missing Data and Unequal Models, 1609
Animal Physiology
Technical Note: Subjective Enumeration of Episodic Events (Spikes) in Animal Physiology Experiments, 1164
Animal Production
Farm Animal Well-Being and Intensive Production Systems, 2744
Animal Proteins
The Impact of Environment and Antimicrobial Agents on the Growth Response of Early-Weaned Pigs to Spray-Dried Porcine Plasma, 2532
Animal Research
Changing Paradigms in Animal Agriculture: The Role of Academia and Industry in Technology Transfer, 3173
Animals
121A
A Review of the Significance of Animal Food Products as Potential Pathways of Human Exposures to Dioxins, 1639
Animal Scientists
135A
Animal Tissues
Evaluation of Copper Sulfate and a Copper Lysine Complex as Growth Promoters for Weanling Swine, 2640
Anion
266A
Anovulation
241A
Anthelmintic
233A
Antibiotic Resistance
121A, 175A, 247A
Antibiotics
174A
Effects of Arrival Medication with Tilmicosin Phosphate on Health and Performance of Newly Received Beef Cattle, 1219
Effects of Dietary Virginiamycin on Performance and Liver Abscess Incidence in Feedlot Cattle, 9
The Impact of Environment and Antimicrobial Agents on the Growth Response of Early-Weaned Pigs to Spray-Dried Porcine Plasma, 2532
Antibodies
149A, 209A
Passive Immunization of Ewes Against an Inhibin-Like Peptide Increases Follicle-Stimulating Hormone Concentrations, Ovulation Rate, and Prolificacy in Spring-Mated Ewes, 1433
Anti-Idiotypes
223A
Antioxidant Enzymes
193A
Antioxidants
Influence of Dietary Vitamin E on the Oxidative Stability and Quality of Pig Meat, 3122
Apoptosis
210A
Follicular Atresia in Pigs: Measurement and Physiology, 2834
Temporal Relationships Between Stress Protein Induction, Progesterone Withdrawal, and Apoptosis in Corpora Lutea of Ewes Treated with Prostaglandin $F_{2\alpha}$, 1789
App
134A
Aquaculture
Care of Fish in Biological Research, 3485
Arachis glabrata
Performance, Carcass Yield, and Carcass Quality Characteristics of Steers Finished on Rhizoma Peanut (*Arachis glabrata*)–Tropical Grass Pasture or Concentrate, 1881
Arctic Charr
180A
Artificial Insemination
Effect of Norgestomet Treatment After Insemination on the Calving Rate of Postpartum Suckled Beef Cows, 3230
Fertility of Bull Semen Packaged in .25- and .5-Milliliter French Straws, 1914
Artificial Rumen
204A
Ascorbic Acid
Preweaning Diet and Stall Weaning Method Influences on Stress Response in Foals, 2922
Aspiration
Transvaginal Aspiration of Oocytes from Hormone-Treated Pregnant Beef Cattle for In Vitro Fertilization, 967
Assays
Technical Note: Detection and Quantification of Supplemental Fungal β-Glucanase Activity in Animal Feed, 1074
Assisted Reproductive Technology
Instructing the Animal Physiology Graduate Student in Human Assisted Reproductive Technology, 2503
Atherosclerosis
Response to Dietary Fat and Cholesterol in Young Adult Boars Genetically Selected for High or Low Plasma Cholesterol, 2043
ATPase
Rapid Communication: Nucleotide Sequence of Caprine Mitochondrial Genes for $tRNA^{Lys}$ and two subunits of F_0-ATPase, 3493
Atrophic Rhinitis
Effects of Atrophic Rhinitis Induced by *Pasteurella multocida* Toxin on Heat Production and Activity of Pigs Kept Under Different Climatic Conditions, 1658
Attitudes
122A
Automation
Pork Carcass Evaluation with an Automated and Computerized Ultrasonic System, 29
Availability
177A
Efficacy of a Recombinant-Derived Phytase in Improving the Bioavailability of Phosphorus in Corn-Soybean Meal Diets for Pigs, 2000
Efficacy of Low-Activity, Microbial Phytase in Improving the Bioavailability of Phosphorus in Corn- Soybean Meal Diets for Pigs, 449
Lysine Oxidation by Growing Pigs Receiving Diets Containing Free and Protein-Bound Lysine, 785
Aversion
125A
Axis Deer
249A

B

β-Adrenergic Agonists
145A, 149A
β_2-Adrenoceptor Densities Do Not Correlate with Growth, Carcass Quality, or Meat Quality in Cattle, 3281
Cardiovascular Effects of Clenbuterol are β_2-Adrenoceptor-Mediated in Steers, 1754
Effects of Dietary Protein Percentage and β-Agonist Administered to Prepubertal Ewes on Mammary Gland Growth and Hormone Secretions, 2655
The Effects of *In Utero* Exposure of Lambs to a β-Adrenergic Agonist on Prenatal and Postnatal Muscle Growth, Carcass Cutability, and Meat Tenderness, 2986
β-Adrenergic Receptors
β_2-Adrenoceptor Densities Do Not Correlate with Growth, Carcass Quality, or Meat Quality in Cattle, 3281
β-Adrenergic Receptor Subtype Transcripts in Porcine Adipose Tissue, 1962
Cardiovascular Effects of Clenbuterol are β_2-Adrenoceptor-Mediated in Steers, 1754
β-casein
136A
β-Glucan
Influence of Dietary β-Glucan on Growth Performance, Non-

specific Immunity, and Resistance to *Streptococcus suis* Infection in Weanling Pigs, 3341
Bacon
161A
Bacteria
264A
Subclinical Mastitis and Milk Production in Primiparous Simmental Cows, 1552
Balansia
Toxic Endophyte-Infected Tall Fescue and Range Grasses: Historic Perspectives, 861
Bambermycins
236A
Barbados
Performance of Hair Breeds and Prolific Wool Breeds of Sheep in Southern Illinois: Lamb Production of F_1 Adult Ewes, 1602
Barley
179A, 191A, 267A
Determination of Apparent Ileal Amino Acid Digestibility in Barley and Canola Meal for Pigs with the Direct, Difference, and Regression Methods, 2364
Effect of Barley Variety and Dietary Barley Content on Digestive Function in Beef Steers Fed Grass Hay-Based Diets, 3476
Barroso
124A
Barrows
195A
BATNA
135A
Beef
117A, 121A, 155A, 156A, 157A, 158A, 159A, 160A, 164A, 166A, 167A, 168A, 169A, 208A, 239A, 240A, 268A, 282A, 283A
A Review of Dietary Vitamin E Supplementation for Improvement of Beef Quality, 3131
Beef Quality Assurance Education Via Satellite Videoconference, 3182
Development and Evaluation of a Regression Equation of Prediction for Fat-Free Soft Tissue in Heterogenous Populations of Cattle, 3627
Dietary Vitamin E Supplementation Shifted Weight Loss from Drip to Cooking Loss in Fresh Beef Longissimus During Display, 2289
Effects of Breed Type and Accelerated Fat Removal on Subprimal Yields and Carcass Values, 1055
Effects of Postmortem Aging Time, Animal Age, and Sex on Degradation of Titin and Nebulin in Bovine Longissimus Muscle, 1064
Effects of Slaughter Age on Meat Tenderness and USDA Carcass Maturity Scores of Beef Females, 3304
Feedlot Performance, Carcass Traits, and Palatability Traits of Hereford and Hereford × Brahman Steers, 3613
Improvement of Beef Tenderness and Quality Traits with Calcium Chloride Injection in Beef Loins 48 Hours Postmortem, 750
Injection-Site Lesions: Incidence, Tissue Histology, Collagen Concentration, and Muscle Tenderness in Beef Rounds, 3510
Microbiology of Hot-Fat-Trimmed Beef, 1368
Performance, Carcass Yield, and Carcass Quality Characteristics of Steers Finished on Rhizoma Peanut (*Arachis glabrata*)–Tropical Grass Pasture or Concentrate, 1881
Postmortem Injection of Calcium Chloride Effects on Beef Quality Traits, 1735
Predicting Beef Carcass Cutability, 406
Relationship Between Shear Force and Trained Sensory Panel Tenderness Ratings of 10 Major Muscles from *Bos indicus* and *Bos taurus* Cattle, 3333
Relationship of Restriction Fragment Length Polymorphisms (RFLP) at the Bovine Calpastatin Locus to Calpastatin Activity and Meat Tenderness, 3608
Restaurant Consumer Acceptance of Beef Loin Strip Steaks Tenderized with Calcium Chloride, 3633
Retail Consumer Acceptance of Beef Tenderized with Calcium Chloride, 2308
Silage or Limit-Fed Grain Growing Diets for Steers: I. Growth and Carcass Quality, 2609
Silage or Limit-Fed Grain Growing Diets for Steers: II. Empty Body and Carcass Composition, 2621
The Effect of Slaframine on Salivary Output and Subacute and Acute Acidosis in Growing Beef Steers, 516
The Effects of Orientation and Storage Time on the Prediction of Beef Rib Composition Using Electromagnetic Scanning, 387
Use of Genetically Identical (Clone) Steers to Determine the Effects of Estrogenic and Androgenic Implants on Beef Quality and Palatability Characteristics, 3317
Beef Breeds
131A
Preweaning Growth of Angus- (*Bos taurus*), Brahman- (*Bos indicus*), and Tuli- (Sanga) Sired Calves and Reproductive Performance of their Brahman Dams, 2558
Beef Bulls
Genetic Parameter Estimation of Postweaning Gain, Feed Intake, and Feed Efficiency for Hereford and Angus Bulls Fed Two Different Diets, 365
Beef Calves
119A
Beef Carcass
163A
Beef Cattle
114A, 116A, 118A, 119A, 120A, 132A, 133A, 163A, 196A, 236A, 237A, 240A, 242A, 254A, 255A, 256A, 257A, 260A, 272A, 276A, 280A, 285A
Adrenal Responses of Angus × Hereford Cattle to the Stress of Weaning, 2669
Application of a Computer Model to Predict Optimum Slaughter End Points for Different Biological Types of Feeder Cattle, 2903
Calf Production by Angus-Hereford and Brahman-Hereford Cows on Two Native Rangeland Forage Systems, 2893
Comparison of Landim and Africander Cattle in Southern Mozambique: I. Body Weights and Growth, 3519
Comparison of Landim and Africander Cattle in Southern Mozambique: II. Female Fertility, Reproduction, and Beef Offtake, 3527
Compensatory Growth and Carcass Quality in Growth-Restricted and Refed Beef Steers, 2971
Direct and Maternal Genetic Responses to Selection for Weaning or Yearling Weight or for Yearling Weight and Muscle Score in Hereford Cattle, 2951
Divergent Selection for Blood Serum Insulin-Like Growth Factor I Concentration in Beef Cattle: I. Nongenetic Effects, 1927
Effect of Accounting for Different Phenotypic Variances by Sire Breed and Sex on Selection of Sires Based on Expected Progeny Differences for 200- and 365-Day Weights, 2589
Effects of Arrival Medication with Tilmicosin Phosphate on Health and Performance of Newly Received Beef Cattle, 1219
Effects of Calcium Soaps of Fatty Acids on Postpartum Reproductive Activity in Beef Cows and Growth of Calves, 2888
Estimation of Non-Additive Genetic Variances in Three Synthetic Lines of Beef Cattle Using an Animal Model, 1002
Estimation of Variances Due to Direct and Maternal Effects for Growth Traits of Nelore Cattle, 3253
Heterogeneity of Variance by Sire Breed, Sex, and Dam Breed in 200- and 365-Day Weights of Beef Cattle from a Top Cross Experiment, 2579
Increased Postweaning Gain of Beef Heifers Enhances Fertility and Milk Production, 937
Influence of Moisture Content of Forage on Ruminal Functional Specific Gravity and Passage of Digesta, 3094
Influence of Processing Supplemental Alfalfa on Intake and Digestion of Dormant Bluestem-Range Forage by Steers, 1187
Influence of Undegraded Intake Protein Supplementation on Milk Production, Weight Gain, and Reproductive Performance in Postpartum Brahman Cows, 3223
Monensin and Ammoniation or Urea Supplementation of Bermudagrass Hay Diets for Steers, 1793
Multistage Selection for Maximum Economic Return with an Application to Beef Cattle Breeding, 699
Performance and Genetic Trends in Purebred Simmental for Regions of the United States, 2540
Prediction of Genetic Values of Sires for Growth Traits of Crossbred Cattle Using a Multivariate Animal Model with Heterogeneous Variances, 2940
Prepartum Nutrition and Solar Radiation in Beef Cattle: I. Relationships of Body Fluid Compartments, Packed Cell

Volume, Plasma Urea Nitrogen, and Estrogens to Prenatal Development, 1289
Prepartum Nutrition and Solar Radiation in Beef Cattle: II. Residual Effects on Postpartum Milk Yield, Immunoglobulin, and Calf Growth, 1303
Real-Time Ultrasonic Measurement of Fat Thickness and Longissimus Muscle Area: I. Description of Age and Weight Effects, 1713
Real-Time Ultrasonic Measurement of Fat Thickness and Longissimus Muscle Area: II. Relationship Between Real-Time Ultrasound Measures and Carcass Retail Yield, 1725
Simulated Influence of Postweaning Production System on Performance of Different Biological Types of Cattle: I. Estimation of Model Parameters, 665
Supplemental Protein and Energy for Beef Cows Consuming Endophyte-Infected Tall Fescue, 3427
Supplemental Protein Sources for Steers Fed Corn-Based Diets: I. Ruminal Characteristics and Intestinal Amino Acid Flows, 1466
Supplemental Protein Sources for Steers Fed Corn-Based Diets: II. Growth and Estimated Metabolizable Amino Acid Supply, 1476
Tarentaise and Hereford Breed Effects on Cow and Calf Traits and Estimates of Individual Heterosis, 2574
The Effect of Selective Reporting on Estimates of Weaning Weight Parameters in Beef Cattle, 1264

Beef Cows
113A, 133A, 206A, 234A, 255A
Effect of Norgestomet Treatment After Insemination on the Calving Rate of Postpartum Suckled Beef Cows, 3230
Subclinical Mastitis and Milk Production in Primiparous Simmental Cows, 1552

Beef Cows and Calves
239A

Beef Grading
163A

Beef Heifers
147A, 222A, 255A

Beef Management Course
291A

Beef Palatability
157A

Beef Steers
235A, 260A, 267A
The Effect of Daily Slaframine Injection on Salivary Score, Feed Intake, Ruminal pH, and Circulating Concentrations of Somatotropin and Insulin-Like Growth Factor I, 526

Beef Teaching
291A

Beef Tenderness
157A, 159A

Behavior
125A, 126A, 127A, 128A, 129A, 247A, 254A
Feeding Behavior and Management Factors During the Transition Period in Dairy Cattle, 2791
Preweaning Diet and Stall Weaning Method Influences on Stress Response in Foals, 2922

Belgian Blue
Estimation of Genetic Parameters for Growth, Feed Consumption, and Conformation Traits for Double-Muscled Belgian Blue Bulls Performance-Tested in Belgium, 3269

Bermudagrass
200A

Beta-Glucanase
Technical Note: Detection and Quantification of Supplemental Fungal β-Glucanase Activity in Animal Feed, 1074

Betaine
195A

Bias
162A

Bifidobacteria
281A

Big Bluestem
204A

Binding
Ergovaline Binding and Activation of D_2 Dopamine Receptors in GH_4ZR_7 Cells, 1396
Glucagon Binding to Receptors on the Surface of Chicken Adipocytes, 728

Binding Proteins
Effects of Growth Hormone and Ovariectomy on Performance, Serum Hormones, Insulin-Like Growth Factor-Binding Proteins, and Muscle Fiber Properties of Prepubertal Friesian Heifers, 3574
Serum Hormones, Follicular Fluid Steroids, Insulin-Like Growth Factors and Their Binding Proteins, and Ovarian IGF mRNA in Sheep with Different Ovulation Rates, 1152

Bioavailability
172A
Copper Bioavailability in Pork Liver and in Various Animal By-Products as Determined by Chick Bioassay, 799
Estimates of Zinc and Iron Bioavailability in Pork Liver and the Effect of Sex of Pig on the Bioavailability of Copper in Pork Liver Fed to Male and Female Chicks, 793
Free and Total Ion Concentrations in Pig Digesta, 1138

Bioelectrical Impedance
170A

Biohydrogenation
279A

Biomass
204A

Biotechnology
289A
Changing Paradigms in Animal Agriculture: The Role of Academia and Industry in Technology Transfer, 3173

Birth Weight
239A
Calf Production by Angus-Hereford and Brahman-Hereford Cows on Two Native Rangeland Forage Systems, 2893
Preweaning Growth of Angus- (*Bos taurus*), Brahman- (*Bos indicus*), and Tuli- (Sanga) Sired Calves and Reproductive Performance of their Brahman Dams, 2558
Reproductive Responses and Calf Birth and Weaning Weights as Affected by Body Condition at Parturition and Postpartum Weight Gain in Primiparous Beef Cows, 1251

Bison
Growth, Digestive Capability, Carcass, and Meat Characteristics of *Bison bison*, *Bos taurus*, and *Bos* × *Bison*, 1271

Bloat
Pasture Management Strategies for Reducing the Risk of Legume Bloat in Cattle, 1493

Blood Composition
213A
Assessment of Vitamin E Nutritional Status in Yearling Beef Heifers, 1440
The Selection of Protein Intake by Pigs Treated with Porcine Somatotropin, 764

Blood Flow
Control of Blood Flow to the Gravid Uterus of Domestic Livestock Species, 1852
Visceral Oxygen Consumption During Chronic Feed Restriction and Realimentation in Sheep, 843

Blood Meal
Effect of Protein Supplementation on Forage Intake and Nitrogen Balance of Lambs Fed Freshly Harvested Wheat Forage, 2687
Value of Feather Meal in a Molasses-Based Liquid Supplement Fed to Yearling Cattle Consuming a Forage Diet, 2865

Blood Plasma
Ideal Digestible Lysine Level for Early- and Late-Finishing Swine, 773
Use of Plasma Urea Nitrogen as a Rapid Response Criterion to Determine the Lysine Requirement of Pigs, 472

Blood Profile
260A

Blood Protein
Effects of Spray-Dried Porcine Plasma Protein on Growth Traits and Nitrogen and Energy Balance in Mice, 2340
Plasma Protein for Pigs Weaned at 19 to 27 Days of Age: Effect on Performance and Plasma Insulin-Like Growth Factor I, Growth Hormone, Insulin, and Glucose Concentrations, 3657

Blood Serum
Blood Serum Concentrations of Selenium in Female Llamas (*Lama glama*) in Relationship to Feeding Practices, Region of United States, Reproductive Stage, and Health of Offspring, 337

Blood Urea Nitrogen
182A
Blood Volume
Uterine Mass and Uterine Blood Volume in Mice Selected 21 Generations for Alternative Criteria to Increase Litter Size, 2243
Boars
153A
Growth Performance, Carcass Characteristics, and Sensory Attributes of Boars Administered Porcine Somatotropin by Sustained-Release Implant for Different Lengths of Time, 3585
Sperm Production in Boars After Nine Generations of Selection for Increased Weight of Testis, 2177
The Effect of Breeding Facility and Sexual Stimulation on Plasma Cortisol in Boars, 3705
Boar Taint
Growth Performance, Carcass Characteristics, and Sensory Attributes of Boars Administered Porcine Somatotropin by Sustained-Release Implant for Different Lengths of Time, 3585
Body Composition
185A
Body Composition and Metabolic Profiles Associated with Puberty in Beef Heifers, 3409
Body Composition of Gilts at Puberty, 2524
Effect of Chromium Picolinate on Growth, Body Composition, and Tissue Accretion in Pigs, 2033
Effect of Diet Energy Concentration and of Age of Holstein-Friesian Bull Calves on Growth Rate, Urea Space and Fat Deposition, and Ruminal Volume, 1666
Effects of Dietary Chromium Picolinate Supplementation on Growth, Carcass Characteristics, and Accretion Rates of Carcass Tissues in Growing-Finishing Swine, 3351
Growth and Body Composition of Meishan and Yorkshire Barrows and Gilts, 738
Prediction of Carcass and Empty Body Composition of Steers by ^{40}K Emission Detection, 2882
Prediction of Tissular Body Composition from Protein and Lipid Deposition in Growing Pigs, 1567
Protein and Lipid Accretion in Body Components of Growing Gilts (20 to 45 Kilograms) as Affected by Energy Intake, 2355
Silage or Limit-Fed Grain Growing Diets for Steers: II. Empty Body and Carcass Composition, 2621
Simulated Influence of Postweaning Production System on Performance of Different Biological Types of Cattle: I. Estimation of Model Parameters, 665
Body Condition
230A
Reproductive Responses and Calf Birth and Weaning Weights as Affected by Body Condition at Parturition and Postpartum Weight Gain in Primiparous Beef Cows, 1251
Body Fluids
Prepartum Nutrition and Solar Radiation in Beef Cattle: I. Relationships of Body Fluid Compartments, Packed Cell Volume, Plasma Urea Nitrogen, and Estrogens to Prenatal Development, 1289
Body Lean Mass
Relationship of Rate of Lean Tissue Growth and Other Factors to Concentration of Urea in Plasma of Pigs, 3649
Body Size
239A
Body Temperature
Temperature-Dependent Responses of Rats to Ergovaline Derived from Endophyte-Infected Tall Fescue, 1954
Body Weight
Comparison of Landim and Africander Cattle in Southern Mozambique: I. Body Weights and Growth, 3519
Direct and Maternal Genetic Responses to or Yearling Weight or for Yearling Weight and Muscle Score in Hereford Cattle, 2951
Boer Goat
228A, 253A
Comparison of Performance of Boer and Spanish Goats in Two U.S. Locations, 302
Bolus
257A
Bone Morphogenetic Protein
Rapid Communication: *Stu*I Restriction Fragment Length Polymorphism at the Porcine *Bone Morphogenetic Protein 5* (*BMP5*) Locus, 311
Rapid Communication: *Taq*I Restriction Fragment Length Polymorphism at the Porcine *Bone Morphogenetic Protein 6* (*BMP6*) Locus, 312
Bones
151A, 174A
Alterations in Metacarpal Characteristics in Steers and Heifers Sequentially Implanted with Synovex®from 45 Days of Birth, 55
Influence of Incremental Zeranol Implant Doses on the Chemical and Physical Characteristics of Third Metacarpal Bone and Chemical Composition of Liver and Soft Tissue from Feedlot Steers, 1
Skeletal Growth Rates of Weanling and Yearling Thoroughbred Horses, 2513
Trace Mineral Supplementation of Yearling Horses, 466
Bone Turnover
142A
Booroola Merino
Performance of Hair Breeds and Prolific Wool Breeds of Sheep in Southern Illinois: Lamb Production of F_1 Adult Ewes, 1602
Bovine
111A, 115A, 140A, 142A, 151A, 167A, 217A, 220A, 225A, 256A, 270A
An Increase in Serum Lipids Increases Luteal Lipid Content and Alters the Disappearance Rate of Progesterone in Cows, 541
Developmental Changes in Sensitivity of Bovine Embryos to Heat Shock and Use of Antioxidants as Thermoprotectants, 1401
Effect of Media Substitutes on Bovine Granulosa Cell Function and Proliferation During In Vitro Culture, 3287
Effect of Pregnancy-Specific Protein B on Luteal Cell Progesterone, Prostaglandin, and Oxytocin Production During Two Stages of the Bovine Estrous Cycle, 2662
Fertility of Bull Semen Packaged in .25- and .5-Milliliter French Straws, 1914
Influence of Calf Genotype on Colostral Immunoglobulins in *Bos taurus* and *Bos indicus* Cows and Serum Immunoglobulins in Their Calves, 3044
Influence of Ruminal or Abomasal Starch Hydrolysate Infusion on Pancreatic Exocrine Secretion and Blood Glucose and Insulin Concentrations in Steers, 3766
In-Vivo Analysis of Serum-Borne Growth Factors in Developing Co-Twinned Fetuses, 1689
Rapid Communication: A *Taq*I Restriction Fragment Length Polymorphism in the Bovine Calpastatin Gene, 3790
Rapid Communication: Bovine Dinucleotide Repeat Polymorphisms *ABS010, ABS011, ABS012, ABS013,* and *ABS014,* 3189
Rapid Communication: Nucleotide Sequence of the Promoter and First Exon of the Somatotropin Receptor Gene in Cattle, 1529
Rapid Communication: Polymorphism in a Bovine Heart-Fatty Acid Binding Protein-Like (H-FABPL) DNA Sequence, 919
Rapid Communication: Restriction Fragment Length Polymorphism in Amplification Products of the Bovine *Growth Hormone-Releasing Hormone* Gene, 3789
Bovine Abortion
208A
Bovine Chromosome 1
Rapid Communication: UWCA46, a Polymorphic Microsatellite Marker, 1530
Bovine IgG
253A
Bovine Luteal Cells
216A
Bovine Oocytes
229A
Bovine Somatotropin
148A, 223A, 224A, 240A, 275A
Brahman
199A, 238A
Feedlot Performance, Carcass Traits, and Palatability Traits of Hereford and Hereford × Brahman Steers, 3613
Branched-Chain Amino Acids
Dietary and Plasma Branched-Chain Amino Acids in Relation to

Tryptophan: Effect on Voluntary Feed Intake and Lactation Metabolism in the Primiparous Sow, 1086
Effects of Excess Dietary Leucine and Leucine Catabolites on Growth and Immune Responses in Weanling Pigs, 159
Branding
Injection-Site Lesions in Carcasses of Cattle Receiving Injections at Branding and at Weaning, 3235
Breed Conservation
123A, 124A
Breed Differences
119A, 246A
Postweaning and Feedlot Growth and Carcass Characteristics of Angus-, Gray Brahman-, Gir-, Indu-Brazil-, Nellore-, and Red Brahman-Sired F_1 Calves, 373
Tarentaise and Hereford Breed Effects on Cow and Calf Traits and Estimates of Individual Heterosis, 2574
Breed Effects
119A
Breeding Facility
The Effect of Breeding Facility and Sexual Stimulation on Plasma Cortisol in Boars, 3705
Breeding Strategies
115A
Breeding Values
Prediction of Genetic Values of Sires for Growth Traits of Crossbred Cattle Using a Multivariate Animal Model with Heterogeneous Variances, 2940
Breeds
256A
Blood Urea and Amino Acid Concentrations in Pigs of Two Breed Combinations as Affected by Energy Intakes, 145
Differences in Copper Status and Copper Metabolism Among Angus, Simmental, and Charolais Cattle, 571
Effect of Breed, Intake, and Carcass Composition on the Status of Several Macro and Trace Minerals of Adult Beef Cattle, 2113
Effect of Breed Type and Sex on the Fatty Acid Composition of Subcutaneous and Intramuscular Lipids of Finishing Steers and Heifers, 3325
Influence of Calf Genotype on Colostral Immunoglobulins in *Bos taurus* and *Bos indicus* Cows and Serum Immunoglobulins in Their Calves, 3044
Influence of Maternal and Service-Sire Breed on Serum Progesterone and Estrogen Before Calving and Plasma 13,14-Dihydro-15-Keto-Prostaglandin $F_{2\alpha}$ After Calving, 1167
Reproduction of F_1 Meishan, Fengjing, Minzhu, and Duroc Gilts and Sows, 711
Broiler Litter
277A, 278A, 287A
Bromocriptine
130A
Bromus inermis
Ruminal Degradation of Switchgrass, Big Bluestem, and Smooth Bromegrass Leaf Proteins, 598
Brown Adipose Tissue
146A
Browse
205A
Browsing
134A
Buffalo
119A, 260A, 273A 281A,
Buffering Capacity
264A
Buffers
Effects of Dietary Buffers on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 414
Bulls
153A, 157A, 236A, 237A, 242A, 257A, 277A
Effect of Ruminally Undegradable Protein from Fish Meal on Growth and Reproduction of Peripuberal Brahman Bulls, 947
Effects of Fill Volume of Diets on Digestive Tract Kinetics and Fattening Pattern of Growing Holstein-Friesian Bull Calves, 2418
Plasma Cortisol and White Blood Cell Responses in Different Breeds of Bulls: A Comparison of Two Methods of Castration, 975
Bundle Sheath Cells
Ruminal Degradation of Switchgrass, Big Bluestem, and Smooth Bromegrass Leaf Proteins, 598
BW Gain
Effects of Fill Volume of Diets on Digestive Tract Kinetics and Fattening Pattern of Growing Holstein-Friesian Bull Calves, 2418
Byproduct Feeds
280A, 284A
The Value of Soybean Hulls as a Replacement for Corn in Beef Cattle Diets Formulated With or Without Added Fat, 2706
Byproducts
Determining the Net Energy Value of Wet and Dry Corn Gluten Feed in Beef Growing and Finishing Diets, 353
Kinetics of Hydration and Functional Specific Gravity of Fibrous Feed By-Products, 1449

C

Cadmium
186A
Caffeine
The Effect of Caffeine on Mammary Gland Development and Milk Yield in Primiparous Sows, 534
Cage Design
130A
Calcium
173A, 184A
Effect of Breed, Intake, and Carcass Composition on the Status of Several Macro and Trace Minerals of Adult Beef Cattle, 2113
Calcium Chloride
156A, 158A
Improvement of Beef Tenderness and Quality Traits with Calcium Chloride Injection in Beef Loins 48 Hours Postmortem, 750
Postmortem Injection of Calcium Chloride Effects on Beef Quality Traits, 1735
Restaurant Consumer Acceptance of Beef Loin Strip Steaks Tenderized with Calcium Chloride, 3633
Retail Consumer Acceptance of Beef Tenderized with Calcium Chloride, 2308
Calcium-Dependent Proteases
165A
Calcium Ionophore
227A
Calcium-Phosphorus
173A
Calf Removal
234A
Calf Weight
113A
Callipyge
137A, 138A, 165A
A Muscle Hypertrophy Condition in Lamb (Callipyge): Characterization of Effects on Muscle Growth and Meat Quality Traits, 3596
Calorimetry
Relationships Among Heat Production, Body Weight, and Age in Suffolk and Texel Ewes, 1030
Calpains
115A, 167A, 168A
A Muscle Hypertrophy Condition in Lamb (Callipyge): Characterization of Effects on Muscle Growth and Meat Quality Traits, 3596
Is Z-Disk Degradation Responsible for Postmortem Tenderization?, 1351
Calpastatin
166A, 167A
A Muscle Hypertrophy Condition in Lamb (Callipyge): Characterization of Effects on Muscle Growth and Meat Quality Traits, 3596
Rapid Communication: A TaqI Restriction Fragment Length Polymorphism in the Bovine Calpastatin Gene, 3790
Relationship of Restriction Fragment Length Polymorphisms (RFLP) at the Bovine Calpastatin Locus to Calpastatin Activity and Meat Tenderness, 3608

Calves
127A, 229A, 238A, 249A, 254A, 274A
Accumulation of the β-Agonist Clenbuterol by Pigmented Tissues in Rat Eye and Hair of Veal Calves, 2050
Alteration of Heat Production in Young Calves in Relation to Posture, 2254
Circadian Changes in Energy Expenditure in the Preruminant Calf: Whole Animal and Tissue Level, 552
Dietary Effects on Fat Deposition and Fatty Acid Profiles in Muscle and Fat Depots of Friesian Bull Calves, 2712
Effects of Free Gossypol in the Diet of Pregnant and Postpartum Brahman Cows on Calf Development and Cow Performance, 496
Effects of Protein Concentration and Protein Source on Performance of Newly Arrived Feedlot Steers, 1585
Injection-Site Lesions in Carcasses of Cattle Receiving Injections at Branding and at Weaning, 3235
Calving
117A, 221A
Effect of Norgestomet Treatment After Insemination on the Calving Rate of Postpartum Suckled Beef Cows, 3230
Genetic and Phenotypic (Co)Variances for Production Traits of Female Populations of Purebred and Composite Beef Cattle, 2235
Genetic and Phenotypic (Co)Variances for Production Traits of Intact Male Populations of Purebred and Composite Beef Cattle, 2227
C-AMP
149A
Ergovaline Binding and Activation of D_2 Dopamine Receptors in GH_4ZR_7 Cells, 1396
Canine
175A, 192A
Cannabinoid
128A
Cannulation
A Technique for the Venous Cannulation of the Mammary Gland in the Lactating Sow, 1390
Canola
Composition of Ruminal Bacteria Harvested from Steers as Influenced by Dietary Forage Level and Fat Supplementation, 2469
Determination of Apparent Ileal Amino Acid Digestibility in Barley and Canola Meal for Pigs with the Direct, Difference, and Regression Methods, 2364
Effects of Forage Level and Canola Seed Supplementation on Site and Extent of Digestion of Organic Matter, Carbohydrates, and Energy by Steers, 2458
Capillaries
Effects of Growth Hormone and Ovariectomy on Performance, Serum Hormones, Insulin-Like Growth Factor-Binding Proteins, and Muscle Fiber Properties of Prepubertal Friesian Heifers, 3574
Capra hircus
Rapid Communication: Nucleotide Sequence of Caprine Mitochondrial Genes for $tRNA^{Lys}$ and two subunits of F_0-ATPase, 3493
Carbohydrates
261A, 270A
Effects of Forage Level and Canola Seed Supplementation on Site and Extent of Digestion of Organic Matter, Carbohydrates, and Energy by Steers, 2458
Influence of Ruminal or Abomasal Starch Hydrolysate Infusion on Pancreatic Exocrine Secretion and Blood Glucose and Insulin Concentrations in Steers, 3766
Maternal and Fetal Blood Levels of Glucose, Lactate, Fructose, and Insulin in the Conscious Pig, 2994
Carbon
True Digestibility of Amino Acids and Protein in Pigs with ^{13}C as a Label to Determine Endogenous Amino Acid Excretion, 1077
Carcass
165A, 167A, 169A, 175A, 194A, 237A, 255A
Effect of Breed, Intake, and Carcass Composition on the Status of Several Macro and Trace Minerals of Adult Beef Cattle, 2113
Effect of Prenatal Androgenization on Performance, Lactation, Carcass, and Sensory Traits of Heifers in a Single-Calf Heifer System, 986
Effect on Performance and Carcass Characteristics of Nursery to Finisher Pigs Fed Reduced Crude Protein, Amino Acid-Supplemented Diets, 433
Effects of a Dexamethasone Implant on Deposition of Intramuscular Fat in Genetically Identical Cattle, 3310
Feedlot Performance, Carcass Traits, and Palatability Traits of Hereford and Hereford × Brahman Steers, 3613
Genetic and Phenotypic (Co)Variances for Growth and Carcass Traits of Purebred and Composite Populations of Beef Cattle, 1920
Growth and Body Composition of Meishan and Yorkshire Barrows and Gilts, 738
Lipogenic Activity of Intramuscular and Subcutaneous Adipose Tissues from Steers Produced by Different Generations of Angus Sires, 1310
Postweaning and Feedlot Growth and Carcass Characteristics of Angus-, Gray Brahman-, Gir-, Indu-Brazil-, Nellore-, and Red Brahman-Sired F_1 Calves, 373
Real-Time Ultrasonic Measurement of Fat Thickness and Longissimus Muscle Area: I. Description of Age and Weight Effects, 1713
Sorghum Amino Acid-Supplemented Diets for the 50- to 100-Kilogram Pig, 1746
Survival, Body Weights, Feed Efficiency, and Carcass Traits of ¾ White Composite and ¼ Duroc, ¼ Meishan, ¼ Fengjing, or ¼ Minzhu Pigs, 3534
The Effects of *In Utero* Exposure of Lambs to a β-Adrenergic Agonist on Prenatal and Postnatal Muscle Growth, Carcass Cutability, and Meat Tenderness, 2986
Carcass Composition
161A, 162A, 166A, 169A, 170A, 235A
Development and Evaluation of a Regression Equation of Prediction for Fat-Free Soft Tissue in Heterogenous Populations of Cattle, 3627
Dietary Chromium Picolinate Additions Improve Gain:Feed and Carcass Characteristics in Growing-Finishing Pigs and Increase Litter Size in Reproducing Sows, 457
Effect of Breed Type and Sex on the Fatty Acid Composition of Subcutaneous and Intramuscular Lipids of Finishing Steers and Heifers, 3325
Effects of Breed Type and Accelerated Fat Removal on Subprimal Yields and Carcass Values, 1055
Effects of Growth Rate on Carcass Composition and Lipid Partitioning at Puberty and Growth Hormone, Insulin-Like Growth Factor I, Insulin, and Metabolites Before Puberty in Beef Heifers, 2390
Growth, Digestive Capability, Carcass, and Meat Characteristics of *Bison bison*, *Bos taurus*, and *Bos* × *Bison*, 1271
Growth and Tissue Accretion of Lambs Fed Concentrate in Drylot, Grazed on Alfalfa or Ryegrass at Weaning, or After Backgrounding on Ryegrass, 3437
Growth Performance, Carcass Characteristics, and Sensory Attributes of Boars Administered Porcine Somatotropin by Sustained-Release Implant for Different Lengths of Time, 3585
Prediction of Carcass and Empty Body Composition of Steers by ^{40}K Emission Detection, 2882
Prenatal Androgenization of Lambs: I. Alterations of Growth, Carcass Characteristics, and Metabolites in Blood, 1694
Simulated Influence of Postweaning Production System on Performance of Different Biological Types of Cattle: II. Carcass Composition, Retail Product, and Quality, 674
Simulated Influence of Postweaning Production System on Performance of Different Biological Types of Cattle: III. Biological Efficiency, 686
The Effect of Dietary Lysine on Growth, Carcass Composition, and Lipid Metabolism in High-Lean Growth Gilts Fed from 72 to 136 Kilograms, 3392
Carcass Quality
β_2-Adrenoceptor Densities Do Not Correlate with Growth, Carcass Quality, or Meat Quality in Cattle, 3281
Effects of Feed Intake and Dietary Level of Wet Corn Gluten Feed on Feedlot Performance, Digestibility of Nutrients, and Carcass Characteristics of Growing-Finishing Beef Heifers, 3246
Feedlot Performance and Carcass Characteristics of Holstein Steers as Affected by Source of Dietary Protein and Level of Ruminally Protected Lysine and Methionine, 3503

Production Responses to Various Doses and Ratios of Estradiol Benzoate and Trenbolone Acetate Implants in Steers and Heifers, 2873
Silage or Limit-Fed Grain Growing Diets for Steers: I. Growth and Carcass Quality, 2609
The Selection of Protein Intake by Pigs Treated with Porcine Somatotropin, 764
Use of Genetically Identical (Clone) Steers to Determine the Effects of Estrogenic and Androgenic Implants on Beef Quality and Palatability Characteristics, 3317
Carcass Retail Yield
Real-Time Ultrasonic Measurement of Fat Thickness and Longissimus Muscle Area: II. Relationship Between Real-Time Ultrasound Measures and Carcass Retail Yield, 1725
Carcass Traits
159A, 166A, 189A, 195A, 284A
Compensatory Growth and Carcass Quality in Growth-Restricted and Refed Beef Steers, 2971
Carcass Value
162A
Carcass Yield
Predicting Beef Carcass Cutability, 406
Carcinogenesis
155A
Cardiovascular System
Cardiovascular Effects of Clenbuterol are β_2-Adrenoceptor-Mediated in Steers, 1754
Carnitine
282A
Casein
Net Nutrient Flux by Visceral Tissues of Beef Steers Given Abomasal and Ruminal Infusions of Casein and Starch, 236
Case-Ready
158A
Cashmere Goats
115A, 281A
Castration
125A, 127A, 236A
Plasma Cortisol and White Blood Cell Responses in Different Breeds of Bulls: A Comparison of Two Methods of Castration, 975
Vocalization and Physiological Response of Pigs During Castration With or Without a Local Anesthetic, 381
CA^{2+} Flux
223A
Cat
In Vitro Fermentation of Selected Fibrous Substrates by Dog and Cat Fecal Inoculum: Influence of Diet Composition on Substrate Organic Matter Disappearance and Short-Chain Fatty Acid Production, 1110
Catecholamines
126A
Biogenic Amines in the Hypothalamus of Rats After Diethyldithiocarbamate or AIMAX Treatment, an Alternative for Norepinephrine Depletion, 1147
Categorical Traits
Maximizing Selection Efficiency for Categorical Traits, 1933
Multiple-Trait Genetic Evaluation for One Polychotomous Trait and Several Continuous Traits with Missing Data and Unequal Models, 1609
Catheters
Maternal and Fetal Blood Levels of Glucose, Lactate, Fructose, and Insulin in the Conscious Pig, 2994
Cation
266A
Cats
Dietary Fiber for Cats: In Vitro Fermentation of Selected Fiber Sources by Cat Fecal Inoculum and In Vivo Utilization of Diets Containing Selected Fiber Sources and Their Blends, 2329
Cattle
126A, 129A, 139A, 144A, 153A, 197A, 202A, 205A, 216A, 219A, 224A, 231A, 232A, 261A, 266A, 270A, 278A, 280A, 284A, 291A
Abortifacient Response and Plasma Vasoconstrictive Activity After Feeding Needles from Ponderosa Pine Trees to Cattle and Sheep, 2102
Alterations in Metacarpal Characteristics in Steers and Heifers Sequentially Implanted with Synovex® from 45 Days of Birth, 55
Application of the Cornell Net Carbohydrate and Protein Model for Cattle Consuming Forages, 267
Assessment of Vitamin E Nutritional Status in Yearling Beef Heifers, 1440
Breed Affects Thermoregulation and Epithelial Morphology in Imported and Native Cattle Subjected to Heat Stress, 3570
Cardiovascular Effects of Clenbuterol are β_2-Adrenoceptor-Mediated in Steers, 1754
Cattle Grazing a Riparian Mountain Meadow: Effects of Low and Moderate Stocking Density on Nutrition, Behavior, Diet Selection, and Plant Growth Response, 3752
Characteristics of Digestion of Linted and Lint-Free Cottonseed in Diets for Feedlot Cattle, 1246
Detection of the Effects of Phytoestrogens on Sheep and Cattle, 1509
Determining the Net Energy Value of Wet and Dry Corn Gluten Feed in Beef Growing and Finishing Diets, 353
Differences in Copper Status and Copper Metabolism Among Angus, Simmental, and Charolais Cattle, 571
Effect of Corn Hybrid and Grain Processing Method on Rate of Starch Disappearance and Performance of Finishing Cattle, 360
Effect of Dietary Protein and Estradiol-17β on Growth and Insulin-like Growth Factor I in Cattle During Realimentation, 589
Effect of Diet Energy Concentration and of Age of Holstein-Friesian Bull Calves on Growth Rate, Urea Space and Fat Deposition, and Ruminal Volume, 1666
Effect of Level and Type of Fat on Subacute Acidosis in Cattle Fed Dry-Rolled Corn Finishing Diets, 2438
Effect of Molasses-Based Liquid Supplements on Digestibility of Creeping Bluestem and Performance of Mature Cows on Winter Range, 853
Effect of Protein Level and Source in Molasses Slurries on the Performance of Growing Cattle Fed Hay During Winter, 3078
Effects of a Dexamethasone Implant on Deposition of Intramuscular Fat in Genetically Identical Cattle, 3310
Effects of Dietary Virginiamycin on Performance and Liver Abscess Incidence in Feedlot Cattle, 9
Effects of Free Gossypol in the Diet of Pregnant and Postpartum Brahman Cows on Calf Development and Cow Performance, 496
Effects of Insulin-Like Growth Factor I and Insulin on Proliferation and on Basal and Luteinizing Hormone-Induced Steroidogenesis of Bovine Thecal Cells: Involvement of Glucose and Receptors for Insulin-Like Growth Factor I and Luteinizing Hormone, 3719
Efficacy of Laidlomycin Propionate to Reduce Ruminal Acidosis in Cattle, 3445
Endocrine Responses in Cows Fed Ponderosa Pine Needles and the Effects of Stress, Corpus Luteum Regression, Progestin, and Ketoprofen, 198
Factors Affecting the Developmental Stage of Embryos Recovered on Day 7 from Superovulated Dairy Cattle, 1539
Feeding Wet Corn Gluten Feed to Reduce Subacute Acidosis in Cattle, 2931
Genetic and Phenotypic (Co)Variances for Growth and Carcass Traits of Purebred and Composite Populations of Beef Cattle, 1920
Genetic and Phenotypic (Co)Variances for Production Traits of Female Populations of Purebred and Composite Beef Cattle, 2235
Genetic and Phenotypic (Co)Variances for Production Traits of Intact Male Populations of Purebred and Composite Beef Cattle, 2227
Growth, Digestive Capability, Carcass, and Meat Characteristics of *Bison bison*, *Bos taurus*, and *Bos* × *Bison*, 1271
Growth and Subsequent Feedlot Performance of Estradiol-Implanted vs Nonimplanted Steers Grazing Fall-Accumulated Endophyte-Infested or Low-Endophyte Tall Fescue, 1576
High-Lysine Corn as a Source of Protein and Energy for Finishing Calves, 228
Immune Response, Glucose Metabolism, and Performance of Stressed Feeder Calves Fed Inorganic or Organic Chromium, 2721
Individual Differences in Docility in Limousin Cattle, 2249
Individual Multilocus Genotypes Using Microsatellite Polymorphisms to Permit the Analysis of the Genetic Variability Within and Between Italian Beef Cattle Breeds, 3259

Influence of Grain Type, Tallow Level, and Tallow Feeding System on Feedlot Cattle Performance, 2916
Influence of Maternal and Service-Sire Breed on Serum Progesterone and Estrogen Before Calving and Plasma 13,14-Dihydro-15-Keto-Prostaglandin $F_{2\alpha}$ After Calving, 1167
Insulin and Glucagon Regulation of Gluconeogenesis in Preruminating and Ruminating Bovine, 546
Interaction of Feed Intake Level on Comparative Ruminal and Total Tract Digestion of Dry-Rolled and Steam-Flaked Corn, 1239
Methane Emissions from Cattle, 2483
Net Nutrient Flux by Visceral Tissues of Beef Steers Given Abomasal and Ruminal Infusions of Casein and Starch, 236
Pasture Management Strategies for Reducing the Risk of Legume Bloat in Cattle, 1493
Performance, Carcass Yield, and Carcass Quality Characteristics of Steers Finished on Rhizoma Peanut (*Arachis glabrata*)–Tropical Grass Pasture or Concentrate, 1881
Production Responses to Various Doses and Ratios of Estradiol Benzoate and Trenbolone Acetate Implants in Steers and Heifers, 2873
Rapid Communication: UWCA46, a Polymorphic Bovine Microsatellite Marker, 1530
Synchronization of Ovarian Follicular Waves with a Gonadotropin-Releasing Hormone Agonist to Increase the Precision of Estrus in Cattle: A Review, 3141
The Effects of Fescue Toxicosis on Beef Cattle Productivity, 889
The Value of Soybean Hulls as a Replacement for Corn in Beef Cattle Diets Formulated With or Without Added Fat, 2706
Value of Feather Meal in a Molasses-Based Liquid Supplement Fed to Yearling Cattle Consuming a Forage Diet, 2865

Cattle Breeds
123A, 236A
Effects of Breed Type and Accelerated Fat Removal on Subprimal Yields and Carcass Values, 1055

Cattle Identification
111A

CD18
266A

cdc25
Rapid Communication: Cloning and Sequencing of a Pig cdc25 Tyrosine Phosphatase cDNA, 630

CDNA
144A

C/EBPα
146A

Cecum
180A
In Vivo Study of Circadian Variations of the Cecal Fermentation Pattern in Postweaned and Adult Rabbits, 128

Cell Cultures
Ergovaline Binding and Activation of D_2 Dopamine Receptors in GH_4ZR_7 Cells, 1396
Regulation of Muscle Cell Proliferation by Extracts from Crushed Muscle, 1972

Cell-Mediated Immunity
The Specific-Stress-Free Housing System Has Positive Effects on Productivity, Health, and Welfare of Pigs, 1544

Cell Proliferation
210A

Cells
149A

Cell Structure
Dietary Vitamin E Supplementation Shifted Weight Loss from Drip to Cooking Loss in Fresh Beef Longissimus During Display, 2289

Cellulose
263A

Cell Wall, Digestibility
202A

Cell Walls
Characteristics of Plant Cell Walls Affecting Intake and Digestibility of Forages by Ruminants, 2774
Plant Compositional Constituents Affecting Between-Plant and Animal Species Prediction of Forage Intake, 2447

Ceruloplasmin
254A

Challenge
113A

Channel Catfish
181A

Chelate
186A, 253A

Chemicals
The Real Story About Food Safety, 2741

Chemical Treatment
277A, 278A

Chevon
245A

Chickens
130A, 152A
Glucagon Binding to Receptors on the Surface of Chicken Adipocytes, 728

Chicks
Copper Bioavailability in Pork Liver and in Various Animal By-Products as Determined by Chick Bioassay, 799
Estimates of Zinc and Iron Bioavailability in Pork Liver and the Effect of Sex of Pig on the Bioavailability of Copper in Pork Liver Fed to Male and Female Chicks, 793
Toxicity and Growth-Promoting Potential of Spermine When Fed to Chicks, 2375

Chicory
203A

Chinese Pigs
Association of PIT1 Polymorphisms with Growth and Carcass Traits in Pigs, 1282
Growth and Body Composition of Meishan and Yorkshire Barrows and Gilts, 738
Reproduction of F_1 Meishan, Fengjing, Minzhu, and Duroc Gilts and Sows, 711

Chlortetracycline
239A

Cholecystokinin
113A, 210A, 213A, 214A

Cholesterol
159A, 161A, 169A
Dietary Effects on Fat Deposition and Fatty Acid Profiles in Muscle and Fat Depots of Friesian Bull Calves, 2712
Effect of Time on Feed on Performance of Feedlot Steers, Carcass Characteristics, and Tenderness and Composition of Longissimus Muscles, 21
Response to Dietary Fat and Cholesterol in Young Adult Boars Genetically Selected for High or Low Plasma Cholesterol, 2043

Cholesterol Oxides
Influence of Dietary Vitamin E on the Oxidative Stability and Quality of Pig Meat, 3122

Chromium
185A, 188A, 189A, 194A, 265A, 276A
Dietary Chromium Picolinate Additions Improve Gain:Feed and Carcass Characteristics in Growing-Finishing Pigs and Increase Litter Size in Reproducing Sows, 457
Effect of Chromium Picolinate on Growth, Body Composition, and Tissue Accretion in Pigs, 2033
Effect of Chromium Tripicolinate on Growth, Glucose Tolerance, Insulin Sensitivity, Plasma Metabolites, and Growth Hormone in Pigs, 1123
Effects of Dietary Chromium Picolinate Supplementation on Growth, Carcass Characteristics, and Accretion Rates of Carcass Tissues in Growing-Finishing Swine, 3351
Immune Response, Glucose Metabolism, and Performance of Stressed Feeder Calves Fed Inorganic or Organic Chromium, 2721
Influence of Chromium Tripicolinate on Glucose Metabolism and Nutrient Partitioning in Growing Lambs, 2694

Chromosome 13
Rapid Communication: Restriction Fragment Length Polymorphism in Amplification Products of the Bovine Growth Hormone-Releasing Hormone Gene, 3789

Chymotrypsin
The Pattern of the Circadian Rhythm of Pancreatic Secretion in Fed Pigs, 3402

CIDR
241A

Cimaterol
149A

Circadian Rhythm
In Vivo Study of Circadian Variations of the Cecal Fermentation Pattern in Postweaned and Adult Rabbits, 128
The Pattern of the Circadian Rhythm of Pancreatic Secretion in Fed Pigs, 3402
Citrus Peel
287A, 288A
Classification Techniques
163A
Clenbuterol
149A
Accumulation of the β-Agonist Clenbuterol by Pigmented Tissues in Rat Eye and Hair of Veal Calves, 2050
Cardiovascular Effects of Clenbuterol are β_2-Adrenoceptor-Mediated in Steers, 1754
The Role of Insulin-Like Growth Factor I in Clenbuterol-Stimulated Growth in Growing Lambs, 3069
Climate
190A
Effects of Atrophic Rhinitis Induced by *Pasteurella multocida* Toxin on Heat Production and Activity of Pigs Kept Under Different Climatic Conditions, 1658
Clinical Investigations
Data Integrity–Conduct of Clinical Investigations: University Investigator Perspective, 622
The Conduct of Clinical Trials and Good Clinical Practices: The Sponsor's Perspective, 614
The Responsibilities of Investigators, Monitors, and Sponsors of Clinical Studies Supporting New Animal Drug Applications, 606
Clones
Use of Genetically Identical (Clone) Steers to Determine the Effects of Estrogenic and Androgenic Implants on Beef Quality and Palatability Characteristics, 3317
Clostridial Vaccines
239A
Injection-Site Lesions in Carcasses of Cattle Receiving Injections at Branding and at Weaning, 3235
Clover
198A
Cold Stress
Alteration of Heat Production in Young Calves in Relation to Posture, 2254
Effect of Cold Exposure on Profiles of Metabolic and Endocrine Responses and on Responses to Feeding and Arginine Injection in Sheep, 2054
Collaboration
135A
Collagen
159A
Collagen Characteristics of Skin, Fell, and Epimysium from Rams, Wethers, and Zeranol-Implanted Ram Lambs, 393
Color
156A
A Review of Dietary Vitamin E Supplementation for Improvement of Beef Quality, 3131
Improvement of Beef Tenderness and Quality Traits with Calcium Chloride Injection in Beef Loins 48 Hours Postmortem, 750
Pork Characteristics as Affected by Two Populations of Swine and Six Crude Protein Levels, 3621
Postmortem Injection of Calcium Chloride Effects on Beef Quality Traits, 1735
Colostrum
Effects of Induced or Delayed Parturition and Supplemental Dietary Fat on Colostrum and Milk Composition in Sows, 1906
Influence of Calf Genotype on Colostral Immunoglobulins in *Bos taurus* and *Bos indicus* Cows and Serum Immunoglobulins in Their Calves, 3044
The Effect of Ewe Body Condition at Lambing on Colostral Immunoglobulin G Concentration and Lamb Performance, 2860
Companion Animal
290A
Compensatory Growth
147A
Effect of Dietary Protein and Estradiol-17β on Growth and Insulin-like Growth Factor I in Cattle During Realimentation, 589
The Effects of Dietary Protein Concentration on Compensatory Growth in Barrows and Gilts, 3376
Competitive Grants
Science and Agriculture Policy at Land-Grant Institutions, 1628
Complement Protein
Rapid Communication: A Polymorphism Detected in Sheep Using a Complement Subcomponent C1r (*C1R*) Probe, 629
Complexes
186A
Composites
119A
Composition
141A, 258A
Alternative Pork Carcass Evaluation Techniques: I. Differences in Predictions of Value, 637
Alternative Pork Carcass Evaluation Techniques: II. Statistical Analysis of Error Attributable to Sex, Genotype, and Weight, 645
Comparison of Daily Versus Continuous Administration of Somatotropin on Growth Rate, Feed Intake, and Body Composition in Intact Female Rats, 1019
Relationships of Serum Insulin-Like Growth Factor I Concentrations to Growth, Composition, and Reproductive Traits of Swine, 3241
The Effects of Orientation and Storage Time on the Prediction of Beef Rib Composition Using Electromagnetic Scanning, 387
Composition Manipulation
Impact of Composition Manipulation on Lean Lamb Production in the United States, 2493
Composting
134A
Computer Simulation
141A
Simulated Influence of Postweaning Production System on Performance of Different Biological Types of Cattle: I. Estimation of Model Parameters, 665
Simulated Influence of Postweaning Production System on Performance of Different Biological Types of Cattle: II. Carcass Composition, Retail Product, and Quality, 674
Simulated Influence of Postweaning Production System on Performance of Different Biological Types of Cattle: III. Biological Efficiency, 686
Computer Software
133A
Concentrates
177A, 259A
Growth and Tissue Accretion of Lambs Fed Concentrate in Drylot, Grazed on Alfalfa or Ryegrass at Weaning, or After Backgrounding on Ryegrass, 3437
Silage or Limit-Fed Grain Growing Diets for Steers: I. Growth and Carcass Quality, 2609
Silage or Limit-Fed Grain Growing Diets for Steers: II. Empty Body and Carcass Composition, 2621
Studies on the In Situ Nitrogen Degradability Corrected for Bacterial Contamination of Concentrate Feeds in Steers, 220
Conception
231A, 242A
Conditioning
Effects of Energy Source and Food Flavor on Conditioned Preferences in Sheep, 1651
Conflict Management
135A
Congress
Changing Paradigms in Animal Agriculture: Addressing Animal Issues in Washington by a Professional Society, 3178
Conservation
123A, 124A
Consistency
Technical Note: Assessing the Consistency of Measurement Procedures in Animal Energetics and Nutrition, 1208
Consumer Preferences
A Comparison of Preferences for Pork Sandwiches Produced from Animals With and Without Somatotropin Administration, 1048
Consumers
155A

Consumer Concerns About Modern Technology in Agriculture: Considerations for Undergraduate and Graduate Teaching, 2727
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: I. Dietary Level of Flaxseed, 1982
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: II. Duration of 15 Dietary Flaxseed, 1987
Restaurant Consumer Acceptance of Beef Loin Strip Steaks Tenderized with Calcium Chloride, 3633
Retail Consumer Acceptance of Beef Tenderized with Calcium Chloride, 2308
Consumption
243A
Contemporary Group
Performance and Genetic Trends in Purebred Simmental for Regions of the United States, 2540
Continuous Culture
262A
Cookery
156A, 157A
Cooking
157A, 245A
Relationship Between Shear Force and Trained Sensory Panel Tenderness Ratings of 10 Major Muscles from *Bos indicus* and *Bos taurus* Cattle, 3333
Cooking Loss
Dietary Vitamin E Supplementation Shifted Weight Loss from Drip to Cooking Loss in Fresh Beef Longissimus During Display, 2289
Copper
172A, 174A, 183A, 186A, 257A, 266A
Copper Bioavailability in Pork Liver and in Various Animal By-Products as Determined by Chick Bioassay, 799
Differences in Copper Status and Copper Metabolism Among Angus, Simmental, and Charolais Cattle, 571
Effect of Breed, Intake, and Carcass Composition on the Status of Several Macro and Trace Minerals of Adult Beef Cattle, 2113
Effect of Copper Depletion and Repletion on Lymphocyte Blastogenesis and Neutrophil Bactericidal Function in Beef Heifers, 2079
Estimates of Zinc and Iron Bioavailability in Pork Liver and the Effect of Sex of Pig on the Bioavailability of Copper in Pork Liver Fed to Male and Female Chicks, 793
Evaluation of Copper Sulfate and a Copper Lysine Complex as Growth Promoters for Weanling Swine, 2640
The Effect of Copper Level on Nutrient Utilization of Weanling Pigs, 166
Trace Mineral Supplementation of Yearling Horses, 466
Copper Glycinate
254A
Copper Status
198A
Corn
175A, 179A, 181A, 200A, 283A, 286A
Determining the Net Energy Value of Wet and Dry Corn Gluten Feed in Beef Growing and Finishing Diets, 353
Effect of Corn Hybrid and Grain Processing Method on Rate of Starch Disappearance and Performance of Finishing Cattle, 360
High-Lysine Corn as a Source of Protein and Energy for Finishing Calves, 228
Intake and Digestion of Low-, Medium-, and High-Quality Grass Hays by Lambs Receiving Increasing Levels of Corn Supplementation, 2156
Nutrient Digestibility and Growth Performance of Pigs Fed Pearl Millet as a Replacement for Corn, 2026
The Value of Soybean Hulls as a Replacement for Corn in Beef Cattle Diets Formulated With or Without Added Fat, 2706
Corn Bran
Free and Total Ion Concentrations in Pig Digesta, 1138
Corn Gluten Feed
Feeding Wet Corn Gluten Feed to Reduce Subacute Acidosis in Cattle, 2931
Corn Stover
264A
Corpus Luteum
217A, 231A, 233A
An Increase in Serum Lipids Increases Luteal Lipid Content and Alters the Disappearance Rate of Progesterone in Cows, 541
Buserelin Alters the Development of the Corpora Lutea in Cyclic and Early Postpartum Cows, 805
Fate of the Dominant Follicle, Embryonal Survival, and Pregnancy Rates in Dairy Cattle Treated with Prostaglandin $F_{2\alpha}$ and Progestins in the Absence or Presence of a Functional Corpus Luteum, 3743
Metabolic and Luteal Sequelae to Heightened Dietary Fat Intake in Undernourished, Anestrous Beef Cows Induced to Ovulate, 2086
Synchronization of Ovarian Follicular Waves with a Gonadotropin-Releasing Hormone Agonist to Increase the Precision of Estrus in Cattle: A Review, 3141
Correlated Traits
Estimation of Genetic Parameters for Growth, Feed Consumption, and Conformation Traits for Double-Muscled Belgian Blue Bulls Performance-Tested in Belgium, 3269
Correlation
118A
Estimation of Variances Due to Direct and Maternal Effects for Growth Traits of Nelore Cattle, 3253
Relationship Between Shear Force and Trained Sensory Panel Tenderness Ratings of 10 Major Muscles from *Bos indicus* and *Bos taurus* Cattle, 3333
Corticotropin
Preweaning Diet and Stall Weaning Method Influences on Stress Response in Foals, 2922
Cortisol
125A, 127A, 137A, 151A, 215A, 227A
The Effect of Breeding Facility and Sexual Stimulation on Plasma Cortisol in Boars, 3705
Cost
Impact of Composition Manipulation on Lean Lamb Production in the United States, 2493
Costameres
Is Z-Disk Degradation Responsible for Postmortem Tenderization?, 1351
Cost Per Ewe
244A
Cottonseed
Characteristics of Digestion of Linted and Lint-Free Cottonseed in Diets for Feedlot Cattle, 1246
Cottonseed Meal
178A, 277A
Effect of Protein Supplementation on Forage Intake and Nitrogen Balance of Lambs Fed Freshly Harvested Wheat Forage, 2687
Lysine Oxidation by Growing Pigs Receiving Diets Containing Free and Protein-Bound Lysine, 785
(Co)variance Components
116A, 117A
Cow Calves
259A
Cows
229A, 231A, 234A, 235A, 254A, 283A
An Evaluation of Estrus Synchronization Programs in Reproductive Management of Dairy Herds, 3687
Buserelin Alters the Development of the Corpora Lutea in Cyclic and Early Postpartum Cows, 805
Developmental Changes in Sensitivity of Bovine Embryos to Heat Shock and Use of Antioxidants as Thermoprotectants, 1401
Effect of Extended Underfeeding on Digestion and Nitrogen Balance in Nonlactating Cows, 211
Effects of Feeding Energy or Protein Supplements Before or After Calving on Performance of Spring-Calving Cows Grazing Native Range, 657
Protein Supplementation of Ammoniated Wheat Straw: Effect on Performance and Forage Utilization of Beef Cattle, 1595
Creep-Feeding
242A
Criollo Cattle
124A
Crossbreeding
116A, 117A, 120A, 169A

Genetic Correlation and Heritabilities for Purebred and Crossbred Performance in Poultry Egg Production Traits, 2220
Crude Protein
199A
CSRS
Science and Agriculture Policy at Land-Grant Institutions, 1628
Culture Media
Effect of Media Substitutes on Bovine Granulosa Cell Function and Proliferation During In Vitro Culture, 3287
Cured Beef
160A
Cyclic Fluctuations
Buserelin Alters the Development of the Corpora Lutea in Cyclic and Early Postpartum Cows, 805
Cycling Ewes
226A
Cynodon dactylon
Monensin and Ammoniation or Urea Supplementation of Bermudagrass Hay Diets for Steers, 1793
Cysteamine
Cysteamine-Induced Depletion of Somatostatin in Sheep: Time Course of Depletion and Changes in Plasma Metabolites, Insulin, and Growth Hormone, 77
Cysteine
Toxicity and Growth-Promoting Potential of Spermine When Fed to Chicks, 2375
Cystine
Added Dietary Methionine in Starter Pig Diets Containing Spray-Dried Blood Products, 2647

D

Dairy
201A, 223A, 266A, 288A
Dairy Cattle
111A, 249A, 261A, 276A
Fate of the Dominant Follicle, Embryonal Survival, and Pregnancy Rates in Dairy Cattle Treated with Prostaglandin $F_{2\alpha}$ and Progestins in the Absence or Presence of a Functional Corpus Luteum, 3743
Dairy Cows
Feeding Behavior and Management Factors During the Transition Period in Dairy Cattle, 2791
Impact of Changes in Organic Nutrient Metabolism on Feeding the Transition Dairy Cow, 2820
Regulation of Organic Nutrient Metabolism During Transition from Late Pregnancy to Early Lactation, 2804
Dam Weight
Differences in Pup Birth Weight, Pup Variability Within Litters, and Dam Weight of Mice Selected for Alternative Criteria to Increase Litter Size, 1948
Dark Cutting
125A
Data Biases
The Effect of Selective Reporting on Estimates of Weaning Weight Parameters in Beef Cattle, 1264
Day/Night Suckling
241A
Deaminase Inhibition
273A
Deamination
Fractionation of Nitrogen Isotopes by Mixed Ruminal Bacteria, 257
Death
Effect of Monensin and Monensin and Tylosin Combination on Feed Intake Variation of Feedlot Steers, 39
Decision Making
135A, 291A
Deer
168A, 227A
Defoliation
Influence of Nitrogen Fertilization and Defoliation Frequency on Nitrogen Constituents and Feeding Value of Annual Ryegrass, 2474
Degradability
263A
Degradable Protein
272A
Degradation Rate
263A
Density Separation
224A
Deposition
Review of Some Aspects of Growth and Development of Feedlot Cattle, 3152
Determination
Technical Note: Detection and Quantification of Supplemental Fungal β-Glucanase Activity in Animal Feed, 1074
Deuterium Oxide
137A
Development
132A, 150A, 153A
Factors Affecting the Developmental Stage of Embryos Recovered on Day 7 from Superovulated Dairy Cattle, 1539
Glucocorticoid Receptor Binding in Porcine Preadipocytes During Development, 722
Insulin and Glucagon Regulation of Gluconeogenesis in Preruminating and Ruminating Bovine, 546
Skeletal Growth Rates of Weanling and Yearling Thoroughbred Horses, 2513
Deworm
255A
DEXA
162A
Dexamethasone
Effects of a Dexamethasone Implant on Deposition of Intramuscular Fat in Genetically Identical Cattle, 3310
Insulin and(or) Dexamethasone Regulation of Glucose and Acetate Utilization in Ovine and Bovine Adipose Tissue Explants Incubated for Seven Days, 2063
Diabetes
218A
Diet
133A, 179A, 183A, 194A, 202A
Blood Serum Concentrations of Selenium in Female Llamas (*Lama glama*) in Relationship to Feeding Practices, Region of United States, Reproductive Stage, and Health of Offspring, 337
Effect of Diet Energy Concentration and of Age of Holstein-Friesian Bull Calves on Growth Rate, Urea Space and Fat Deposition, and Ruminal Volume, 1666
Effects of Postweaning Diet on Age and Weight at Puberty and Milk Production of Heifers, 63
Metabolic and Luteal Sequelae to Heightened Dietary Fat Intake in Undernourished, Anestrous Beef Cows Induced to Ovulate, 2086
Response to Dietary Fat and Cholesterol in Young Adult Boars Genetically Selected for High or Low Plasma Cholesterol, 2043
The Impact of Environment and Antimicrobial Agents on the Growth Response of Early-Weaned Pigs to Spray-Dried Porcine Plasma, 2532
Dietary Carbohydrate
Effects of Energy Source in the Diet on Reproductive Hormones and Insulin During Lactation and Subsequent Estrus in Multiparous Sows, 3022
Dietary Fat
279A
An Increase in Serum Lipids Increases Luteal Lipid Content and Alters the Disappearance Rate of Progesterone in Cows, 541
Composition of Ruminal Bacteria Harvested from Steers as Influenced by Dietary Forage Level and Fat Supplementation, 2469
Effects of Energy Source in the Diet on Reproductive Hormones and Insulin During Lactation and Subsequent Estrus in Multiparous Sows, 3022
Effects of Induced or Delayed Parturition and Supplemental Dietary Fat on Colostrum and Milk Composition in Sows, 1906
Dietary Protein
Comparison Between 3-Methylhistidine Production and Proteinase Activity as Measures of Skeletal Muscle Breakdown in Protein-Deficient Growing Barrows, 2272
Effects of Dietary Protein Percentage and β-Agonist Administered to Prepubertal Ewes on Mammary Gland Growth and Hormone Secretions, 2655

The Effects of Dietary Protein Concentration on Compensatory Growth in Barrows and Gilts, 3376
Differential mRNA
216A
Differentiation
145A
Digesta
The Poisson Process as a Model for Compartment Digesta Flow in Ruminants, 177
Digesta Kinetics
273A
Effects of Fill Volume of Diets on Digestive Tract Kinetics and Fattening Pattern of Growing Holstein-Friesian Bull Calves, 2418
Retention Time of Digesta in the Rumen: Its Repeatability and Relationship with Wool Production of Merino Rams, 206
Digestibility
173A, 179A, 185A, 187A, 188A, 191A, 198A, 202A, 203A, 213A, 248A, 259A, 260A, 266A, 278A, 282A, 284A, 288A
Characteristics of Plant Cell Walls Affecting Intake and Digestibility of Forages by Ruminants, 2774
Dietary Fiber for Cats: In Vitro Fermentation of Selected Fiber Sources by Cat Fecal Inoculum and In Vivo Utilization of Diets Containing Selected Fiber Sources and Their Blends, 2329
Dietary Fiber for Dogs: IV. In Vitro Fermentation of Selected Fiber Sources by Dog Fecal Inoculum and In Vivo Digestion and Metabolism of Fiber-Supplemented Diets, 1099
Effect of Substitution of Starch for Fiber and Fat in Isoenergetic Diets on Nutrient Digestibility and Reproductive Performance of Rabbits, 1131
Effects of Dietary Buffers on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 414
Effects of Hulls of Faba Beans (*Vicia faba* L.) with a Low or High Content of Condensed Tannins on the Apparent Ileal and Fecal Digestibility of Nutrients and the Excretion of Endogenous Protein in Ileal Digesta and Feces of Pigs, 118
Effects of Mill Type and Particle Size Uniformity on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 2564
Effects of Particle Size and Pelleting on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 757
Estimation by Regression Analysis of Endogenous Amino Acid Levels in Digesta Collected from the Distal Ileum of Pigs, 2319
Performance and Nutrient Digestibility in Weanling Pigs as Influenced by Yeast Culture Additions to Starter Diets Containing Dried Whey or One of Two Fiber Sources, 1381
Plant Compositional Constituents Affecting Between-Plant and Animal Species Prediction of Forage Intake, 2447
Protein Supplementation of Ammoniated Wheat Straw: Effect on Performance and Forage Utilization of Beef Cattle, 1595
Reducing Particle Size of Corn in Lactation Diets from 1,200 to 400 Micrometers Improves Sow and Litter Performance, 421
Technical Note: Comparison of In Vitro and In Situ Digestibility Methods, 578
True Digestibility of Amino Acids and Protein in Pigs with ^{13}C as a Label to Determine Endogenous Amino Acid Excretion, 1077
Digestion
175A, 257A, 261A, 278A, 285A, 286A
Effect of Barley Variety and Dietary Barley Content on Digestive Function in Beef Steers Fed Grass Hay-Based Diets, 3476
Effect of Corn Hybrid and Grain Processing Method on Rate of Starch Disappearance and Performance of Finishing Cattle, 360
Effect of Extended Underfeeding on Digestion and Nitrogen Balance in Nonlactating Cows, 211
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: I. Digestion of Nitrogen and Amino Acids, 824
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: II. Digestion of Artifacts of Heating, 835
Effect of Supplemental Yeast Culture in Sow Gestation and Lactation Diets on Apparent Nutrient Digestibilities and Reproductive Performance Through One Reproductive Cycle, 1741
Effects of Feed Intake and Dietary Level of Wet Corn Gluten Feed on Feedlot Performance, Digestibility of Nutrients, and Carcass Characteristics of Growing-Finishing Beef Heifers, 3246
Growth, Digestive Capability, Carcass, and Meat Characteristics of *Bison bison*, *Bos taurus*, and *Bos* × *Bison*, 1271
Intake and Digestion of Low-, Medium-, and High-Quality Grass Hays by Lambs Receiving Increasing Levels of Corn Supplementation, 2156
In Vitro Fermentation of Selected Fibrous Substrates by Dog and Cat Fecal Inoculum: Influence of Diet Composition on Substrate Organic Matter Disappearance and Short-Chain Fatty Acid Production, 1110
Measurement and Kinetic Analysis of the Neutral Detergent-Soluble Carbohydrate Fraction of Legumes and Grasses, 3455
The Effects of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: II. Protein and Amino Acid Digestion, 2131
Digestion Enhancer
197A
Digestion Rates
202A
Dihydroxypyridine
209A
Technical Note: Tissue Residues of Mimosine and 2,3-Dihydroxypyridine After Intravenous Infusion in Goats, 172
Dilution Rate
262A
Dinucleotide Repeats
Rapid Communication: UWCA46, a Polymorphic Bovine Microsatellite Marker, 1530
Dioxins
208A
A Review of the Significance of Animal Food Products as Potential Pathways of Human Exposures to Dioxins, 1639
Direct-Fed Microbials
249A
Disease
150A
Effects of Arrival Medication with Tilmicosin Phosphate on Health and Performance of Newly Received Beef Cattle, 1219
Dispute Management
135A
Dissolved Oxygen
181A
Distribution
167A
Rapid Communication: A Polymorphism Detected in Sheep Using a Complement Subcomponent C1r (*C1R*) Probe, 629
Disulfide Bonds
286A
DNA
110A, 111A, 115A
Growth Patterns in Selected Organs of the Miniature Swine as Determined by Gross Macromolecular Composition, 1340
Rapid Communication: Nucleotide Sequence of the Promoter and First Exon of the Somatotropin Receptor Gene in Cattle, 1529
Dogs
176A, 186A, 192A
Dietary Fiber for Dogs: IV. In Vitro Fermentation of Selected Fiber Sources by Dog Fecal Inoculum and In Vivo Digestion and Metabolism of Fiber-Supplemented Diets, 1099
In Vitro Fermentation of Selected Fibrous Substrates by Dog and Cat Fecal Inoculum: Influence of Diet Composition on Substrate Organic Matter Disappearance and Short-Chain Fatty Acid Production, 1110
Domestic Animals
Control of Blood Flow to the Gravid Uterus of Domestic Livestock Species, 1852
Dominant Follicle
220A
Domperidone
199A
Dopamine
Equine Fescue Toxicosis: Signs and Solutions, 899
Ergovaline Binding and Activation of D_2 Dopamine Receptors in GH_4ZR_7 Cells, 1396
Dressing Percentage
Effects of a Dexamethasone Implant on Deposition of Intramuscular Fat in Genetically Identical Cattle, 3310

Drip
Dietary Vitamin E Supplementation Shifted Weight Loss from Drip to Cooking Loss in Fresh Beef Longissimus During Display, 2289
Drought Resistance
Acremonium in Fescue and Ryegrass: Boon or Bane? A Review, 881
Drug Delivery System
Comparison of Daily Versus Continuous Administration of Somatotropin on Growth Rate, Feed Intake, and Body Composition in Intact Female Rats, 1019
Drugs
121A
Dual-Energy X-ray Absorptiometry
162A
Dust
Dust Suppression in Swine Feed Using Soybean Oil, 981
Dwarf Elephantgrass
206A
Dystocia
112A, 239A
Mifepristone (RU 486) Induces Parturition in Primiparous Beef Heifers and Reduces Incidence of Dystocia, 3421
Reproductive Responses and Calf Birth and Weaning Weights as Affected by Body Condition at Parturition and Postpartum Weight Gain in Primiparous Beef Cows, 1251

E

Ear Corn
268A, 283A
Ear Implants
253A
Early Experience
125A
Early Weaning
176A, 238A, 241A, 259A, 273A
Interaction of Diet Composition and a Reduced Nocturnal Temperature Regimen in Weanling Pigs, 2518
The Impact of Environment and Antimicrobial Agents on the Growth Response of Early-Weaned Pigs to Spray-Dried Porcine Plasma, 2532
Economic Index
112A
Economics
197A, 250A
Education
289A
Instructing the Animal Physiology Graduate Student in Human Assisted Reproductive Technology, 2503
Efficiency
243A
Genetic Parameter Estimation of Postweaning Gain, Feed Intake, and Feed Efficiency for Hereford and Angus Bulls Fed Two Different Diets, 365
Impact of Composition Manipulation on Lean Lamb Production in the United States, 2493
Egg
171A
Egg Production
Genetic Correlation and Heritabilities for Purebred and Crossbred Performance in Poultry Egg Production Traits, 2220
Electric Fencing
205A
Electrical Stimulation
157A
Electrochemiluminescence
253A
Electroejaculatio
242A
Electrolytes
125A
Electromagnetic Field
Cortisol Secretion and Growth in Ewe Lambs Chronically Exposed to Electric and Magnetic Fields of a 60-Hertz 500-Kilovolt AC Transmission Line, 3274
The Effects of Orientation and Storage Time on the Prediction of Beef Rib Composition Using Electromagnetic Scanning, 387
Electronics
246A
ELISA
166A
Embryos
212A, 214A, 221A
Developmental Changes in Sensitivity of Bovine Embryos to Heat Shock and Use of Antioxidants as Thermoprotectants, 1401
Factors Affecting the Developmental Stage of Embryos Recovered on Day 7 from Superovulated Dairy Cattle, 1539
Fate of the Dominant Follicle, Embryonal Survival, and Pregnancy Rates in Dairy Cattle Treated with Prostaglandin $F_{2\alpha}$ and Progestins in the Absence or Presence of a Functional Corpus Luteum, 3743
Role of Dietary Lipids on Fetal Tissue Fatty Acid Composition and Fetal Survival in Swine at 42 Days of Gestation, 1372
Sex Identification in Mammals with Polymerase Chain Reaction and Its Use to Examine Sex Effects on Diameter of Day-10 or -11 Pig Embryos, 1408
Endocrine Regulation
36A
Endocrine System
Acute Prenatal Androgen Treatment Increases Birth Weights and Growth Rates in Lambs, 2600
Endogenous Protein
Effects of Hulls of Faba Beans (*Vicia faba* L.) with a Low or High Content of Condensed Tannins on the Apparent Ileal and Fecal Digestibility of Nutrients and the Excretion of Endogenous Protein in Ileal Digesta and Feces of Pigs, 118
Estimation by Regression Analysis of Endogenous Amino Acid Levels in Digesta Collected from the Distal Ileum of Pigs, 2319
Endometrium
215A
Endophytes
199A
Acremonium in Fescue and Ryegrass: Boon or Bane? A Review, 881
Analysis of Endophyte Toxins: Fescue and Other Grasses Toxic to Livestock, 871
Endogenous Toxins and Mycotoxins in Forage Grasses and Their Effects on Livestock, 909
Growth and Subsequent Feedlot Performance of Estradiol-Implanted vs Nonimplanted Steers Grazing Fall-Accumulated Endophyte-Infested or Low-Endophyte Tall Fescue, 1576
Toxic Endophyte-Infected Tall Fescue and Range Grasses: Historic Perspectives, 861
Endotoxin
1B
Energy
182A, 237A, 258A, 281A
Determining the Net Energy Value of Wet and Dry Corn Gluten Feed in Beef Growing and Finishing Diets, 353
Effect of Feeding Reduced Protein, Amino Acid-Supplemented Diets on Nitrogen and Energy Balance in Grower Pigs, 3000
Effect of Protein Level and Source in Molasses Slurries on the Performance of Growing Cattle Fed Hay During Winter, 3078
Effect of Protein Supplementation on Forage Intake and Nitrogen Balance of Lambs Fed Freshly Harvested Wheat Forage, 2687
Effects of Energy or Protein Supplements and Stage of Production on Intake and Digestibility of Hay by Beef Cows, 651
Effects of Energy Source and Food Flavor on Conditioned Preferences in Sheep, 1651
Effects of Feeding Energy or Protein Supplements Before or After Calving on Performance of Spring-Calving Cows Grazing Native Range, 657
Effects of Forage Level and Canola Seed Supplementation on Site and Extent of Digestion of Organic Matter, Carbohydrates, and Energy by Steers, 2458
Effects of Postweaning Diet on Age and Weight at Puberty and Milk Production of Heifers, 63

Effects of Reducing Particle Size of Corn in Lactation Diets on Energy and Nitrogen Metabolism in Second-Parity Sows, 427
Nutrient Digestibility and Growth Performance of Pigs Fed Pearl Millet as a Replacement for Corn, 2026
Energy Content
Characteristics and Efficiency of Fast-Growing Feedlot Steers Fed Different Dietary Energy Concentrations, 931
Energy Cost of Standing
Alteration of Heat Production in Young Calves in Relation to Posture, 2254
Energy-Dispersive X-Ray Analysis
Free and Total Ion Concentrations in Pig Digesta, 1138
Energy Expenditure
270A
Energy Intake
185A
Blood Urea and Amino Acid Concentrations in Pigs of Two Breed Combinations as Affected by Energy Intakes, 145
Protein and Energy Utilization by Ruminants at Pasture, 278
Protein and Lipid Accretion in Body Components of Growing Gilts (20 to 45 Kilograms) as Affected by Energy Intake, 2355
Energy Metabolism
Circadian Changes in Energy Expenditure in the Preruminant Calf: Whole Animal and Tissue Level, 552
Energy Metabolism in Young Pigs as Affected by Mixing, 3562
Energy Restriction
141A
Energy Supplementation
Influence of High-Starch vs High-Fiber Energy Supplements on Performance of Stocker Cattle Grazing Wheat Pasture and Subsequent Feedlot Performance, 45
Energy Utilization
176A
Enhancer-Like
144A
Enterostatin
210A
Environment
127A, 128A, 132A, 203A, 204A, 243A, 273A
Environmental Sustainability
242A
Enzymes
153A, 180A, 187A
EPD
121A, 237A
Epididymal Sperm Reserves
228A
Epidural Blockade
Effects of Restraint and Isolation Stress and Epidural Blockade on Endocrine and Blood Metabolite Status, Muscle Glycogen Metabolism, and Incidence of Dark-Cutting Longissimus Muscle of Sheep, 2295
Epinephrine
Adrenal Responses of Angus × Hereford Cattle to the Stress of Weaning, 2669
Effects of Restraint and Isolation Stress and Epidural Blockade on Endocrine and Blood Metabolite Status, Muscle Glycogen Metabolism, and Incidence of Dark-Cutting Longissimus Muscle of Sheep, 2295
Epithelium
Breed Affects Thermoregulation and Epithelial Morphology in Imported and Native Cattle Subjected to Heat Stress, 3570
Equation
164A
Equine
142A, 176A, 183A, 184A, 215A
Ergot Alkaloids
132A
Ergovaline Binding and Activation of D_2 Dopamine Receptors in GH_4ZR_7 Cells, 1396
Temperature-Dependent Responses of Rats to Ergovaline Derived from Endophyte-Infected Tall Fescue, 1954
Escherichia Coli
122A, 247A, 281A
Estimated Breeding Values
Performance and Genetic Trends in Purebred Simmental for Regions of the United States, 2540
Estimation
Development and Evaluation of a Regression Equation of Prediction for Fat-Free Soft Tissue in Heterogenous Populations of Cattle, 3627
Estradiol
215A, 222A, 225A, 229A, 230A, 232A
An Evaluation of Estrus Synchronization Programs in Reproductive Management of Dairy Herds, 3687
Effect of Dietary Protein and Estradiol-17β on Growth and Insulin-like Growth Factor I in Cattle During Realimentation, 589
Endocrine and Ovarian Responses to Exogenous Estradiol-17β in 6-Month-Old Heifers Previously Immunized Against Growth Hormone-Releasing Factor, 2071
Evaluation of Response to Hormonal Therapy in Prepubertal Gilts of Different Genetic Lines, 3062
Follicular Atresia in Pigs: Measurement and Physiology, 2834
Growth and Subsequent Feedlot Performance of Estradiol-Implanted vs Nonimplanted Steers Grazing Fall-Accumulated Endophyte-Infested or Low-Endophyte Tall Fescue, 1576
Messenger Ribonucleic Acid for Gonadotropin-Releasing Hormone Receptor and Numbers of Gonadotropin-Releasing Hormone Receptors in Ovariectomized Ewes after Hypothalamic-Pituitary Disconnection and Treatment with Estradiol, 1784
Serum Concentrations of Luteinizing Hormone, Growth Hormone, and Prolactin in Untreated and Estradiol-Treated Ovariectomized Ewes After Immunoneutralization of Hypothalamic Neuropeptide Y, 2105
Estradiol Benzoate
Production Responses to Various Doses and Ratios of Estradiol Benzoate and Trenbolone Acetate Implants in Steers and Heifers, 2873
Estrogens
Alterations in Metacarpal Characteristics in Steers and Heifers Sequentially Implanted with Synovex® from 45 Days of Birth, 55
Influence of Maternal and Service-Sire Breed on Serum Progesterone and Estrogen Before Calving and Plasma 13,14-Dihydro-15-Keto-Prostaglandin $F_{2\alpha}$ After Calving, 1167
Prepartum Nutrition and Solar Radiation in Beef Cattle: I. Relationships of Body Fluid Compartments, Packed Cell Volume, Plasma Urea Nitrogen, and Estrogens to Prenatal Development, 1289
Estrous Cycle
Day of Estrous Cycle Affects Follicular Dynamics After Induced Luteolysis in Ewes, 2094
Exogenous Oxytocin Decreases Interestrous Interval of Cyclic Gilts, 3681
Estrous Induction
253A
Estrus
220A, 241A
An Evaluation of Estrus Synchronization Programs in Reproductive Management of Dairy Herds, 3687
Effect of Norgestomet Treatment After Insemination on the Calving Rate of Postpartum Suckled Beef Cows, 3230
Growth and Estrous Behavior of Heifers Actively Immunized Against Prostaglandin $F_{2\alpha}$, 345
Immunization of Prepubertal Beef Heifers Against Gonadotropin-Releasing Hormone: Immune, Estrus, Ovarian, and Growth Responses, 3030
Estrus Synchronization
232A, 252A
Improved Synchrony, Conception Rate, and Fecundity in Postpartum Suckled Beef Cows Fed Melengestrol Acetate Prior to Prostaglandin $F_{2\alpha}$, 954
Ethics
122A
EV Analysis
117A
Ewe Lambs

Ewes
245A
Day of Estrous Cycle Affects Follicular Dynamics After Induced Luteolysis in Ewes, 2094
Effects of Feeding a High-Grain Diet at a Restricted Intake on Lactation Performance and Rebreeding of Ewes, 3199

Effects of Feeding Wash-Water Solids on Health and Performance of Ewes and Lambs, 3552
Effects of Limit Feeding a High-Grain Diet on Puberty and Reproductive Performance of Ewes, 3206
Production by Ewes Rearing Single or Twin Lambs: Effects of Dietary Crude Protein Percentage and Supplemental Zinc Methionine, 1227
The Effect of Ewe Body Condition at Lambing on Colostral Immunoglobulin G Concentration and Lamb Performance, 2860
Exercise
Acid-Base Variables During Incremental Exercise in Sprint-Trained Horses Fed a High-Fat Diet, 2009
Exotoxin
1B
Expected Progeny Difference
Effect of Accounting for Different Phenotypic Variances by Sire Breed and Sex on Selection of Sires Based on Expected Progeny Differences for 200- and 365-Day Weights, 2589
Extension
133A
Extrusion
175A, 177A, 178A, 185A

F

^{15}N
263A
Effects of Hulls of Faba Beans (*Vicia faba* L.) with a Low or High Content of Condensed Tannins on the Apparent Ileal and Fecal Digestibility of Nutrients and the Excretion of Endogenous Protein in Ileal Digesta and Feces of Pigs, 118
5'-Deiodinase
152A
Faba Beans
Effects of Hulls of Faba Beans (*Vicia faba* L.) with a Low or High Content of Condensed Tannins on the Apparent Ileal and Fecal Digestibility of Nutrients and the Excretion of Endogenous Protein in Ileal Digesta and Feces of Pigs, 118
FAIR '95
Science and Agriculture Policy at Land-Grant Institutions, 1628
Farming Systems
153A
Farrowing
Reducing Pig Mortality Through Supervision During the Prenatal Period, 3543
Fasting
168A, 184A
Fat
155A, 234A, 280A
Acid-Base Variables During Incremental Exercise in Sprint-Trained Horses Fed a High-Fat Diet, 2009
Dietary Effects on Fat Deposition and Fatty Acid Profiles in Muscle and Fat Depots of Friesian Bull Calves, 2712
Effect of Adding Fat and(or) Milk Products to the Weanling Pig Diet on Performance in the Nursery and Subsequent Grow-Finish Stages, 3358
Effect of Level and Type of Fat on Subacute Acidosis in Cattle Fed Dry-Rolled Corn Finishing Diets, 2438
Effects of Calcium Soaps of Fatty Acids on Postpartum Reproductive Activity in Beef Cows and Growth of Calves, 2888
Influence of Grain Type, Tallow Level, and Tallow Feeding System on Feedlot Cattle Performance, 2916
Metabolic and Luteal Sequelae to Heightened Dietary Fat Intake in Undernourished, Anestrous Beef Cows Induced to Ovulate, 2086
Real-Time Ultrasonic Measurement of Fat Thickness and Longissimus Muscle Area: II. Relationship Between Real-Time Ultrasound Measures and Carcass Retail Yield, 1725
Response to Dietary Fat and Cholesterol in Young Adult Boars Genetically Selected for High or Low Plasma Cholesterol, 2043
Review of Some Aspects of Growth and Development of Feedlot Cattle, 3152
The Effect of Copper Level on Nutrient Utilization of Weanling Pigs, 166
The Value of Soybean Hulls as a Replacement for Corn in Beef Cattle Diets Formulated With or Without Added Fat, 2706
Fat Depth
Pork Carcass Evaluation with an Automated and Computerized Ultrasonic System, 29
Fat-Free Lean Index
161A
Fat Metabolism
148A
Fattening
Effects of a Dexamethasone Implant on Deposition of Intramuscular Fat in Genetically Identical Cattle, 3310
Effects of Fill Volume of Diets on Digestive Tract Kinetics and Fattening Pattern of Growing Holstein-Friesian Bull Calves, 2418
Fattening Performance
Influence of Roughage and Grain Processing in High-Concentrate Diets on the Performance of Long-Fed Holstein Steers and Heifers, 1888
Fat Thickness
158A
Fatty Acid Binding Protein
Rapid Communication: Polymorphism in a Bovine Heart-Fatty Acid Binding Protein-Like (H-FABPL) DNA Sequence, 919
Fatty Acids
114A, 169A, 176A
Butylsoyamide Protects Soybean Oil from Ruminal Biohydrogenation: Effects of Butylsoyamide on Plasma Fatty Acids and Nutrient Digestion in Sheep, 818
Dietary Effects on Fat Deposition and Fatty Acid Profiles in Muscle and Fat Depots of Friesian Bull Calves, 2712
Effect of Breed Type and Sex on the Fatty Acid Composition of Subcutaneous and Intramuscular Lipids of Finishing Steers and Heifers, 3325
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: I. Dietary Level of Flaxseed, 1982
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: II. Duration of 15 Dietary Flaxseed, 1987
Glucose and Free Fatty Acid Modulation of Growth Hormone and Luteinizing Hormone Secretion by Cultured Porcine Pituitary Cells, 1416
The Effect of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: I. Organic Matter, Energy, Fiber, and Fatty Acid Digestion, 2120
Fatty Acid Synthase
145A
Fatty Acyl Amides
Butylsoyamide Protects Soybean Oil from Ruminal Biohydrogenation: Effects of Butylsoyamide on Plasma Fatty Acids and Nutrient Digestion in Sheep, 818
FDA
Data Integrity–Conduct of Clinical Investigations: University Investigator Perspective, 622
The Conduct of Clinical Trials and Good Clinical Practices: The Sponsor's Perspective, 614
The Responsibilities of Investigators, Monitors, and Sponsors of Clinical Studies Supporting New Animal Drug Applications, 606
Fear
125A
Feather Meal
Effect of Protein Supplementation on Forage Intake and Nitrogen Balance of Lambs Fed Freshly Harvested Wheat Forage, 2687
Value of Feather Meal in a Molasses-Based Liquid Supplement Fed to Yearling Cattle Consuming a Forage Diet, 2865
Fecal Coliforms
175A
Feed Additives
Pasture Management Strategies for Reducing the Risk of Legume Bloat in Cattle, 1493
Feed Conversion
Dietary Chromium Picolinate Additions Improve Gain:Feed and Carcass Characteristics in Growing-Finishing Pigs and Increase Litter Size in Reproducing Sows, 457

Effects of Spray-Dried Porcine Plasma Protein on Growth Traits and Nitrogen and Energy Balance in Mice, 2340
Multistage Selection for Maximum Economic Return with an Application to Beef Cattle Breeding, 699
Feed Deprivation
Influence of a Three-Day Feed and Water Deprivation Period on Gut Fill, Tissue Weights, and Tissue Composition in Mature Wethers, 2548
Feed Digestion
264A
Feed Efficiency
139A
Feed Enzymes
175A
Feeder Steers
256A
Feed Grains
285A
Feeding
127A, 262A, 288A
Feeding Behavior and Management Factors During the Transition Period in Dairy Cattle, 2791
Impact of Changes in Organic Nutrient Metabolism on Feeding the Transition Dairy Cow, 2820
Performance, Carcass Yield, and Carcass Quality Characteristics of Steers Finished on Rhizoma Peanut (*Arachis glabrata*)–Tropical Grass Pasture or Concentrate, 1881
Feeding Behavior
246A
Effects of Energy Source and Food Flavor on Conditioned Preferences in Sheep, 1651
Feeding Frequency
235A
Feeding Level
148A
Feeding Value
268A
Feed Intake
213A, 250A, 278A, 280A
Characteristics and Efficiency of Fast-Growing Feedlot Steers Fed Different Dietary Energy Concentrations, 931
Dietary and Plasma Branched-Chain Amino Acids in Relation to Tryptophan: Effect on Voluntary Feed Intake and Lactation Metabolism in the Primiparous Sow, 1086
Effects of Feed Intake and Dietary Level of Wet Corn Gluten Feed on Feedlot Performance, Digestibility of Nutrients, and Carcass Characteristics of Growing-Finishing Beef Heifers, 3246
Efficacy of Laidlomycin Propionate to Reduce Ruminal Acidosis in Cattle, 3445
Impact of Changes in Organic Nutrient Metabolism on Feeding the Transition Dairy Cow, 2820
Interaction of Feed Intake Level on Comparative Ruminal and Total Tract Digestion of Dry-Rolled and Steam-Flaked Corn, 1239
Interactive Effects of Feed Intake and Stage of Growth on the Lysine Requirement of Pigs, 3369
The Effect of Daily Slaframine Injection on Salivary Score, Feed Intake, Ruminal pH, and Circulating Concentrations of Somatotropin and Insulin-Like Growth Factor I, 526
Feedlot
238A, 255A, 268A, 275A
Feedlot Cattle
281A
Review of Some Aspects of Growth and Development of Feedlot Cattle, 3152
Feedlot Performance
272A, 280A
Feedlots
Application of a Computer Model to Predict Optimum Slaughter End Points for Different Biological Types of Feeder Cattle, 2903
Characteristics and Efficiency of Fast-Growing Feedlot Steers Fed Different Dietary Energy Concentrations, 931
Effects of Dietary Virginiamycin on Performance and Liver Abscess Incidence in Feedlot Cattle, 9
Effects of Protein Concentration and Protein Source on Performance of Newly Arrived Feedlot Steers, 1585
Feedlot Performance, Carcass Traits, and Palatability Traits of Hereford and Hereford × Brahman Steers, 3613
Genetic Parameter Estimation of Postweaning Gain, Feed Intake, and Feed Efficiency for Hereford and Angus Bulls Fed Two Different Diets, 365
Postweaning and Feedlot Growth and Carcass Characteristics of Angus-, Gray Brahman-, Gir-, Indu-Brazil-, Nellore-, and Red Brahman-Sired F_2 Calves, 373
Feedlot Steers
Effect of Time on Feed on Performance of Feedlot Steers, Carcass Characteristics, and Tenderness and Composition of Longissimus Muscles, 21
Feed Preferences
The Selection of Protein Intake by Pigs Treated with Porcine Somatotropin, 764
Feed Requirements
Optimum Ratio to Lysine of Threonine, Tryptophan, and Sulfur Amino Acids for Finishing Swine, 482
Feed Restriction
225A
Feeds
157A, 263A
Technical Note: Detection and Quantification of Supplemental Fungal β-Glucanase Activity in Animal Feed, 1074
Fengjing
Survival, Body Weights, Feed Efficiency, and Carcass Traits of ¾ White Composite and ¼ Duroc, ¼ Meishan, ¼ Fengjing, or ¼ Minzhu Pigs, 3534
Fermentation
Dietary Fiber for Cats: In Vitro Fermentation of Selected Fiber Sources by Cat Fecal Inoculum and In Vivo Utilization of Diets Containing Selected Fiber Sources and Their Blends, 2329
Dietary Fiber for Dogs: IV. In Vitro Fermentation of Selected Fiber Sources by Dog Fecal Inoculum and In Vivo Digestion and Metabolism of Fiber-Supplemented Diets, 1099
Effect of Malate on In Vitro Mixed Ruminal Microorganism Fermentation, 2141
In Vitro Fermentation of Cellulose, Beet Pulp, Citrus Pulp, and Citrus Pectin Using Fecal Inoculum from Cats, Dogs, Horses, Humans, and Pigs and Ruminal Fluid from Cattle, 3639
In Vitro Fermentation of Selected Fibrous Substrates by Dog and Cat Fecal Inoculum: Influence of Diet Composition on Substrate Organic Matter Disappearance and Short-Chain Fatty Acid Production, 1110
In Vivo Study of Circadian Variations of the Cecal Fermentation Pattern in Postweaned and Adult Rabbits, 128
Fertility
112A, 220A, 225A, 232A, 233A, 245A, 251A, 277A
Fertility of Bull Semen Packaged in .25- and .5-Milliliter French Straws, 1914
Improved Synchrony, Conception Rate, and Fecundity in Postpartum Suckled Beef Cows Fed Melengestrol Acetate Prior to Prostaglandin $F_{2\alpha}$, 954
Increased Postweaning Gain of Beef Heifers Enhances Fertility and Milk Production, 937
Fertilization
Effect of Sulfur Fertilization on Chemical Composition, Ensiling Characteristics, and Utilization by Lambs of Sorghum Silage, 1803
Influence of Nitrogen Fertilization and Defoliation Frequency on Nitrogen Constituents and Feeding Value of Annual Ryegrass, 2474
Fescue-Toxicosis
199A
Festuca arundinacea
208A, 237A
Acremonium in Fescue and Ryegrass: Boon or Bane? A Review, 881
Equine Fescue Toxicosis: Signs and Solutions, 899
Growth and Subsequent Feedlot Performance of Estradiol-Implanted vs Nonimplanted Steers Grazing Fall-Accumulated Endophyte-Infested or Low-Endophyte Tall Fescue, 1576
Supplemental Protein and Energy for Beef Cows Consuming Endophyte-Infected Tall Fescue, 3427
The Effects of Fescue Toxicosis on Beef Cattle Productivity, 889
Toxic Endophyte-Infected Tall Fescue and Range Grasses: Historic Perspectives, 861

Fetal Growth
Effects of Recombinant Porcine Somatotropin on Placental Size, Fetal Growth, and IGF-I and IGF-II Concentrations in Pigs, 2980
Fetal Tissue
Role of Dietary Lipids on Fetal Tissue Fatty Acid Composition and Fetal Survival in Swine at 42 Days of Gestation, 1372
Fetus
126A, 188A
Acute Prenatal Androgen Treatment Increases Birth Weights and Growth Rates in Lambs, 2600
Maternal and Fetal Blood Levels of Glucose, Lactate, Fructose, and Insulin in the Conscious Pig, 2994
Placental-Fetal Hormonal Interactions: Impact on Fetal Growth, 1861
Utero-Placental Vascular Development and Placental Function, 1839
Fiber
175A, 197A, 199A, 201A, 202A
Characteristics of Plant Cell Walls Affecting Intake and Digestibility of Forages by Ruminants, 2774
Dietary Fiber for Cats: In Vitro Fermentation of Selected Fiber Sources by Cat Fecal Inoculum and In Vivo Utilization of Diets Containing Selected Fiber Sources and Their Blends, 2329
Dietary Fiber for Dogs: IV. In Vitro Fermentation of Selected Fiber Sources by Dog Fecal Inoculum and In Vivo Digestion and Metabolism of Fiber-Supplemented Diets, 1099
Effect of Substitution of Starch for Fiber and Fat in Isoenergetic Diets on Nutrient Digestibility and Reproductive Performance of Rabbits, 1131
Feeding Wet Corn Gluten Feed to Reduce Subacute Acidosis in Cattle, 2931
Influence of Altering Ruminal Degradation of Soybean Meal Protein on In Situ Ruminal Fiber Disappearance of Forages and Fibrous Byproducts, 2428
In Vitro Fermentation of Cellulose, Beet Pulp, Citrus Pulp, and Citrus Pectin Using Fecal Inoculum from Cats, Dogs, Horses, Humans, and Pigs and Ruminal Fluid from Cattle, 3639
In Vitro Fermentation of Selected Fibrous Substrates by Dog and Cat Fecal Inoculum: Influence of Diet Composition on Substrate Organic Matter Disappearance and Short-Chain Fatty Acid Production, 1110
Performance and Nutrient Digestibility in Weanling Pigs as Influenced by Yeast Culture Additions to Starter Diets Containing Dried Whey or One of Two Fiber Sources, 1381
Technical Note: Comparison of In Vitro and In Situ Digestibility Methods, 578
Fiber Source
264A
Field Trip
291A
Fill Volume
Effects of Fill Volume of Diets on Digestive Tract Kinetics and Fattening Pattern of Growing Holstein-Friesian Bull Calves, 2418
Financial Support
292A
Finishing Cattle
258A
Effect of Monensin and Monensin and Tylosin Combination on Feed Intake Variation of Feedlot Steers, 39
Finishing Pigs
175A
Finnish Ayrshire
112A
Finnsheep
Performance of Hair Breeds and Prolific Wool Breeds of Sheep in Southern Illinois: Lamb Production of F_1 Adult Ewes, 1602
Fish
134A, 181A
Care of Fish in Biological Research, 3485
Fish Meal
272A
Effect of Ruminally Undegradable Protein from Fish Meal on Growth and Reproduction of Peripuberal Brahman Bulls, 947
Effect of Supplemental Fish Meal Protein on Site and Extent of Digestion in Beef Steers, 1196
Fishmeal
138A
Fish Products
Value of Feather Meal in a Molasses-Based Liquid Supplement Fed to Yearling Cattle Consuming a Forage Diet, 2865
Flashing
211A
Flavor
Effects of Energy Source and Food Flavor on Conditioned Preferences in Sheep, 1651
Improvement of Beef Tenderness and Quality Traits with Calcium Chloride Injection in Beef Loins 48 Hours Postmortem, 750
Postmortem Injection of Calcium Chloride Effects on Beef Quality Traits, 1735
Retail Consumer Acceptance of Beef Tenderized with Calcium Chloride, 2308
Flaxseed
164A
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: I. Dietary Level of Flaxseed, 1982
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: II. Duration of 15 Dietary Flaxseed, 1987
Fleece Weight
Selection for Lambing Rate and Clean Fleece in Sheep, 3195
Florida
276A
Flow Cytometry
210A
Follicular Atresia in Pigs: Measurement and Physiology, 2834
Flush-Feeding
212A
Folic Acid
186A
Follicles
217A, 220A, 230A, 231A, 233A, 234A
Day of Estrous Cycle Affects Follicular Dynamics After Induced Luteolysis in Ewes, 2094
Fate of the Dominant Follicle, Embryonal Survival, and Pregnancy Rates in Dairy Cattle Treated with Prostaglandin $F_{2\alpha}$ and Progestins in the Absence or Presence of a Functional Corpus Luteum, 3743
Synchronization of Ovarian Follicular Waves with a Gonadotropin-Releasing Hormone Agonist to Increase the Precision of Estrus in Cattle: A Review, 3141
Follicular Fluid
Serum Hormones, Follicular Fluid Steroids, Insulin-Like Growth Factors and Their Binding Proteins, and Ovarian IGF mRNA in Sheep with Different Ovulation Rates, 1152
Food
109A, 122A, 130A, 147A, 275A, 283A, 290A
A Review of the Significance of Animal Food Products as Potential Pathways of Human Exposures to Dioxins, 1639
The Real Story About Food Safety, 2741
Forages
196A, 197A, 198A, 200A, 201A, 202A, 203A, 204A, 207A, 254A, 260A, 278A, 280A, 286A
A Collaborative Study of In Situ Forage Protein Degradation, 583
Characteristics of Plant Cell Walls Affecting Intake and Digestibility of Forages by Ruminants, 2774
Desirable Characteristics of Forage Legumes for Improving Protein Utilization in Ruminants, 2760
Diet Quality and Ruminal Digestion in Beef Cattle Grazing Midgrass Prairie Rangeland or Plains Bluestem Pasture Throughout the Summer, 1174
Effects of Energy or Protein Supplements and Stage of Production on Intake and Digestibility of Hay by Beef Cows, 651
Effects of Forage Level and Canola Seed Supplementation on Site and Extent of Digestion of Organic Matter, Carbohydrates, and Energy by Steers, 2458
Growth and Tissue Accretion of Lambs Fed Concentrate in Drylot, Grazed on Alfalfa or Ryegrass at Weaning, or After Backgrounding on Ryegrass, 3437

Influence of Forage Level and Naloxone Injection on Feed Intake, Digestion, and Plasma Hormone and Metabolite Concentrations in Dairy Heifers, 2677
Influence of Moisture Content of Forage on Ruminal Functional Specific Gravity and Passage of Digesta, 3094
Measurement and Kinetic Analysis of the Neutral Detergent-Soluble Carbohydrate Fraction of Legumes and Grasses, 3455
Performance, Carcass Yield, and Carcass Quality Characteristics of Steers Finished on Rhizoma Peanut (*Arachis glabrata*)–Tropical Grass Pasture or Concentrate, 1881
Plant Compositional Constituents Affecting Between-Plant and Animal Species Prediction of Forage Intake, 2447
Ruminal Degradation of Switchgrass, Big Bluestem, and Smooth Bromegrass Leaf Proteins, 598
Silage or Limit-Fed Grain Growing Diets for Steers: I. Growth and Carcass Quality, 2609
Silage or Limit-Fed Grain Growing Diets for Steers: II. Empty Body and Carcass Composition, 2621
The Involvement of Slaframine and Swainsonine in Slobbers Syndrome: A Review, 1499
Urea Ammoniation Effects on the Feeding Value of Guineagrass (*Panicum maximum*) Hay, 3085
Forage Intake
Cattle Grazing a Riparian Mountain Meadow: Effects of Low and Moderate Stocking Density on Nutrition, Behavior, Diet Selection, and Plant Growth Response, 3752
Influence of Energy or Protein Supplementation During Midpregnancy on Forage Intake of Ewes Grazing Montana Winter Range, 2853
Forest
Mortality of Domestic Sheep in Free-Ranging Flocks in Southeastern Norway, 1012
Forestomach
270A
Foster Calf
234A
Free Amino Acid
Blood Urea and Amino Acid Concentrations in Pigs of Two Breed Combinations as Affected by Energy Intakes, 145
Freemartin
167A
Free Radical
228A
Frozen Semen
251A
Fructooligosaccharide
281A
FSH
223A
Transvaginal Aspiration of Oocytes from Hormone-Treated Pregnant Beef Cattle for In Vitro Fertilization, 967
FSH/LH
226A
FSH-P
220A
Fumonisin
Acute Hepatic and Renal Toxicity in Lambs Dosed with Fumonisin-Containing Culture Material, 508
Fusarium proliferatum
Acute Hepatic and Renal Toxicity in Lambs Dosed with Fumonisin-Containing Culture Material, 508

G

Gain
Increased Postweaning Gain of Beef Heifers Enhances Fertility and Milk Production, 937
Gamma Distribution
The Poisson Process as a Model for Compartment Digesta Flow in Ruminants, 177
Ganefromycin
285A
Garbage Feeding
177A
Gas
Measurement and Kinetic Analysis of the Neutral Detergent-Soluble Carbohydrate Fraction of Legumes and Grasses, 3455
Gastrointestinal
Free and Total Ion Concentrations in Pig Digesta, 1138
Gene Expression
213A
Generalized Linear Mixed Models
Maximizing Selection Efficiency for Categorical Traits, 1933
Genetic Analysis
114A
Direct and Maternal Genetic Responses to Selection for Weaning or Yearling Weight or for Yearling Weight and Muscle Score in Hereford Cattle, 2951
Genetic Change
116A, 120A
Genetic Correlation
116A
Estimation of Genetic Parameters for Litter Size in Canadian Yorkshire and Landrace Swine with Each Parity of Farrowing Treated as a Different Trait, 2959
Genetic and Phenotypic (Co)Variances for Growth and Carcass Traits of Purebred and Composite Populations of Beef Cattle, 1920
Genetic and Phenotypic (Co)Variances for Production Traits of Female Populations of Purebred and Composite Beef Cattle, 2235
Genetic and Phenotypic (Co)Variances for Production Traits of Intact Male Populations of Purebred and Composite Beef Cattle, 2227
Genetic Engineering
121A
A Biotechnological Approach to Improving the Nutritive Value of Alfalfa, 2752
Genetic Environmental Interaction
Comparison of Performance of Boer and Spanish Goats in Two U.S. Locations, 302
Genetic Evaluation
Comparison of Evaluation-Selection Systems for Maximizing Genetic Response at the Same Level of Inbreeding, 2208
Genetic Markers
110A, 111A
Association of PIT1 Polymorphisms with Growth and Carcass Traits in Pigs, 1282
Rapid Communication: Polymorphism in a Bovine Heart-Fatty Acid Binding Protein-Like (H-FABPL) DNA Sequence, 919
Genetic Merit
222A
Genetic Parameters
119A
Estimation of Variances Due to Direct and Maternal Effects for Growth Traits of Nelore Cattle, 3253
Genetic Correlation and Heritabilities for Purebred and Crossbred Performance in Poultry Egg Production Traits, 2220
Genetic Parameter Estimation of Postweaning Gain, Feed Intake, and Feed Efficiency for Hereford and Angus Bulls Fed Two Different Diets, 365
Genetic Resources
123A, 124A
Genetic Response
Comparison of Evaluation-Selection Systems for Maximizing Genetic Response at the Same Level of Inbreeding, 2208
Genetics
128A, 132A, 140A, 288A
Genetics of the Interval from Weaning to Estrus in First-Litter Sows: Distribution of Data, Direct Response of Selection, and Heritability, 2193
Pork Characteristics as Affected by Two Populations of Swine and Six Crude Protein Levels, 3621
Rapid Communication: A Polymorphism Detected in Sheep Using a Complement Subcomponent C1r (*C1R*) Probe, 629
Response to Dietary Fat and Cholesterol in Young Adult Boars Genetically Selected for High or Low Plasma Cholesterol, 2043
Genetic Trend
Performance and Genetic Trends in Purebred Simmental for Regions of the United States, 2540
Genetic Variation
Estimation of Non-Additive Genetic Variances in Three Synthetic Lines of Beef Cattle Using an Animal Model, 1002

Individual Multilocus Genotypes Using Microsatellite Polymorphisms to Permit the Analysis of the Genetic Variability Within and Between Italian Beef Cattle Breeds, 3259
Technical Note: Changes in Genetic Predictions Between Subsequent Evaluations, 2204
Genotype Environment Interaction
131A
Calf Production by Angus-Hereford and Brahman-Hereford Cows on Two Native Rangeland Forage Systems, 2893
Genotypes
162A, 193A, 242A
Administration of Porcine Somatotropin by Daily Injection: Growth and Endocrine Responses in Genetically Lean and Obese Barrows and Gilts, 3294
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth, Carcass, and Sensory Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1327
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth Factor and Metabolic Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1318
Alternative Pork Carcass Evaluation Techniques: I. Differences in Predictions of Value, 637
Alternative Pork Carcass Evaluation Techniques: II. Statistical Analysis of Error Attibuable to Sex, Genotype, and Weight, 645
Estimation of Genetic Parameters for Growth, Feed Consumption, and Conformation Traits for Double-Muscled Belgian Blue Bulls Performance-Tested in Belgium, 3269
Evaluation of Response to Hormonal Therapy in Prepubertal Gilts of Different Genetic Lines, 3062
The Effect of Dietary Lysine on Growth, Carcass Composition, and Lipid Metabolism in High-Lean Growth Gilts Fed from 72 to 136 Kilograms, 3392
Geographic Information System
129A
Germ Plasm Preservation
123A
Gestation
210A, 262A
Gestational Diabetes
The Onset of Maternal Diabetes in Swine Induces Alterations in the Development of the Fetal Preadipocyte, 69
Gibberella fujikuroi
Acute Hepatic and Renal Toxicity in Lambs Dosed with Fumonisin-Containing Culture Material, 508
Gilts
189A, 211A, 212A, 218A, 251A
Body Composition of Gilts at Puberty, 2524
The Effect of Dietary Lysine on Growth, Carcass Composition, and Lipid Metabolism in High-Lean Growth Gilts Fed from 72 to 136 Kilograms, 3392
Gliricidia sepium
154A, 155A
Global Warming
Methane Emissions from Cattle, 2483
Glucagon
Dose Response of Plasma Insulin and Glucagon to Intravenous *n*-Butyrate Infusion in Sheep, 3038
Effect of Cold Exposure on Profiles of Metabolic and Endocrine Responses and on Responses to Feeding and Arginine Injection in Sheep, 2054
Glucagon Binding to Receptors on the Surface of Chicken Adipocytes, 728
Plasma Insulin and Glucagon Responses to Propionate Infusion into Femoral and Mesenteric Veins in Sheep, 191
Glucocorticoids
Adrenal Responses of Angus × Hereford Cattle to the Stress of Weaning, 2669
Glucocorticoid Receptor Binding in Porcine Preadipocytes During Development, 722
Gluconeogenesis
Effects of Bovine Somatotropin and Insulin on Whole-Body and Hindlimb Glucose Metabolism in Growing Steers, 2263
Effects of Glycine and Bovine Serum Albumin on Inhibition of Propionate Metabolism in Ovine Hepatocytes Caused by Reduced Phenolic Monomers, 3009
Glucose
151A
Adaptation to Small Intestinal Starch Assimilation and Glucose Transport in Ruminants, 1828
Effect of Intravenous Glucose Infusion on Metabolism of Portal-Drained Viscera in Sheep Fed a Cereal/Straw-Based Diet, 2146
Effects of Bovine Somatotropin and Insulin on Whole-Body and Hindlimb Glucose Metabolism in Growing Steers, 2263
Endocrine and Metabolic Response to Muscarinic Stimulation and Inhibition in the Ruminant: Effects of Slaframine, 3673
Glucose and Free Fatty Acid Modulation of Growth Hormone and Luteinizing Hormone Secretion by Cultured Porcine Pituitary Cells, 1416
Immune Response, Glucose Metabolism, and Performance of Stressed Feeder Calves Fed Inorganic or Organic Chromium, 2721
Insulin and(or) Dexamethasone Regulation of Glucose and Acetate Utilization in Ovine and Bovine Adipose Tissue Explants Incubated for Seven Days, 2063
Glucose Absorption
267A
Glucose Kinetics
185A
Glucose Metabolism
279A
Glucose Tolerance
Effect of Chromium Tripicolinate on Growth, Glucose Tolerance, Insulin Sensitivity, Plasma Metabolites, and Growth Hormone in Pigs, 1123
Influence of Chromium Tripicolinate on Glucose Metabolism and Nutrient Partitioning in Growing Lambs, 2694
Glucose Transporter
61B
Glutamine
151A
Glutathione
Developmental Changes in Sensitivity of Bovine Embryos to Heat Shock and Use of Antioxidants as Thermoprotectants, 1401
Gluten
Effect of Protein Supplementation on Forage Intake and Nitrogen Balance of Lambs Fed Freshly Harvested Wheat Forage, 2687
Gluten Feed
Determining the Net Energy Value of Wet and Dry Corn Gluten Feed in Beef Growing and Finishing Diets, 353
Effects of Feed Intake and Dietary Level of Wet Corn Gluten Feed on Feedlot Performance, Digestibility of Nutrients, and Carcass Characteristics of Growing-Finishing Beef Heifers, 3246
Glycogen
Effects of Restraint and Isolation Stress and Epidural Blockade on Endocrine and Blood Metabolite Status, Muscle Glycogen Metabolism, and Incidence of Dark-Cutting Longissimus Muscle of Sheep, 2295
GM-CSF
221A
GnRH
220A, 223A, 224A, 232A, 234A, 235A
An Evaluation of Estrus Synchronization Programs in Reproductive Management of Dairy Herds, 3687
Buserelin Alters the Development of the Corpora Lutea in Cyclic and Early Postpartum Cows, 805
Immunization of Heifers Against Gonadotropin-Releasing Hormone: Antibody Titers, Ovarian Function, Body Growth, and Carcass Characteristics, 2382
Immunization of Prepubertal Beef Heifers Against Gonadotropin-Releasing Hormone: Immune, Estrus, Ovarian, and Growth Responses, 3030
Messenger Ribonucleic Acid for Gonadotropin-Releasing Hormone Receptor and Numbers of Gonadotropin-Releasing Hormone Receptors in Ovariectomized Ewes after Hypothalamic-Pituitary Disconnection and Treatment with Estradiol, 1784
Serum Concentrations of Luteinizing Hormone, Growth Hormone, and Prolactin in Untreated and Estradiol-Treated Ovariectomized Ewes After Immunoneutralization of Hypothalamic Neuropeptide Y, 2105

Synchronization of Ovarian Follicular Waves with a Gonadotropin-Releasing Hormone Agonist to Increase the Precision of Estrus in Cattle: A Review, 3141
Goats
123A, 134A, 165A, 205A, 206A, 227A, 228A, 246A, 253A, 258A, 262A, 263A, 270A, 272A
Comparison of Performance of Boer and Spanish Goats in Two U.S. Locations, 302
Effect of Sex Class on Nutrient Content of Meat from Young Goat, 296
Effects of Amino Acids Administered to a Perfused Area of the Skin in Angora Goats, 565
Endocrine and Metabolic Response to Muscarinic Stimulation and Inhibition in the Ruminant: Effects of Slaframine, 3673
Technical Note: Tissue Residues of Mimosine and 2,3-Dihydroxypyridine After Intravenous Infusion in Goats, 172
Goitrogens
Leucaena Toxicosis and Its Control in Ruminants, 1487
Gonadotropins
252A
Gossypol
178A, 277A
Effects of Free Gossypol in the Diet of Pregnant and Postpartum Brahman Cows on Calf Development and Cow Performance, 496
Grain Diets
200A
Effect of Monensin and Monensin and Tylosin Combination on Feed Intake Variation of Feedlot Steers, 39
Effects of Feeding a High-Grain Diet at a Restricted Intake on Lactation Performance and Rebreeding of Ewes, 3199
Effects of Limit Feeding a High-Grain Diet on Puberty and Reproductive Performance of Ewes, 3206
Grain Processing
267A, 268A
Grain Sorghum
282A, 283A, 286A
Grain Source
268A
Granulosa Cells
Effect of Media Substitutes on Bovine Granulosa Cell Function and Proliferation During In Vitro Culture, 3287
Grasses
202A, 260A, 261A
Analysis of Endophyte Toxins: Fescue and Other Grasses Toxic to Livestock, 871
Endogenous Toxins and Mycotoxins in Forage Grasses and Their Effects on Livestock, 909
Grazing
134A, 197A, 198A, 206A, 272A
Diet Quality and Ruminal Digestion in Beef Cattle Grazing Midgrass Prairie Rangeland or Plains Bluestem Pasture Throughout the Summer, 1174
Growth and Tissue Accretion of Lambs Fed Concentrate in Drylot, Grazed on Alfalfa or Ryegrass at Weaning, or After Backgrounding on Ryegrass, 3437
Mortality of Domestic Sheep in Free-Ranging Flocks in Southeastern Norway, 1012
Grazing Behavior
129A, 131A
Grazing Pressure
206A
Grazing Systems
Pasture Management Strategies for Reducing the Risk of Legume Bloat in Cattle, 1493
GRF
148A, 150A
Group Projects
291A
Group Size
250A
Growing Cattle
Influence of High-Starch vs High-Fiber Energy Supplements on Performance of Stocker Cattle Grazing Wheat Pasture and Subsequent Feedlot Performance, 45
Growing Lambs
168A, 264A
Growing Swine
182A
Growth
110A, 113A, 118A, 137A, 140A, 141A, 142A, 144A, 149A, 153A, 167A, 172A, 181A, 189A, 194A, 195A, 206A, 237A, 238A, 248A, 249A, 253A, 265A, 271A, 277A, 284A
Acute Prenatal Androgen Treatment Increases Birth Weights and Growth Rates in Lambs, 2600
Added Dietary Methionine in Starter Pig Diets Containing Spray-Dried Blood Products, 2647
Administration of Porcine Somatotropin by Daily Injection: Growth and Endocrine Responses in Genetically Lean and Obese Barrows and Gilts, 3294
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth, Carcass, and Sensory Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1327
Alterations in Metacarpal Characteristics in Steers and Heifers Sequentially Implanted with Synovex® from 45 Days of Birth, 55
β_2-Adrenoceptor Densities Do Not Correlate with Growth, Carcass Quality, or Meat Quality in Cattle, 3281
Breed Effects of Foster Lamb and Foster Dam on Lamb Viability and Growth, 1559
Comparison Between 3-Methylhistidine Production and Proteinase Activity as Measures of Skeletal Muscle Breakdown in Protein-Deficient Growing Barrows, 2272
Comparison of Daily Versus Continuous Administration of Somatotropin on Growth Rate, Feed Intake, and Body Composition in Intact Female Rats, 1019
Compensatory Growth and Carcass Quality in Growth-Restricted and Refed Beef Steers, 2971
Cortisol Secretion and Growth in Ewe Lambs Chronically Exposed to Electric and Magnetic Fields of a 60-Hertz 500-Kilovolt AC Transmission Line, 3274
Differential Effects of Plane of Protein or Energy Nutrition on Visceral Organs and Hormones in Lambs, 1674
Dose-Response Effects of Recombinant Bovine Somatotropin (Posilac™) on Growth Performance and Body Composition of Two-Year-Old Rainbow Trout (*Oncorhynchus mykiss*), 3216
Effect of Chromium Picolinate on Growth, Body Composition, and Tissue Accretion in Pigs, 2033
Effect of Divergent Selection for Postweaning Average Daily Gain on Front-End Soundness of Market-Weight Pigs, 1940
Effect of Ruminally Undegradable Protein from Fish Meal on Growth and Reproduction of Peripuberal Brahman Bulls, 947
Effect on Performance and Carcass Characteristics of Nursery to Finisher Pigs Fed Reduced Crude Protein, Amino Acid-Supplemented Diets, 433
Effects of Dietary Buffers on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 414
Effects of Particle Size and Pelleting on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 757
Effects of Porcine Somatotropin Administration on Porcine Muscles Located Within Different Regions of the Body, 2282
Effects of Spray-Dried Porcine Plasma Protein on Growth Traits and Nitrogen and Energy Balance in Mice, 2340
Genetic and Phenotypic (Co)Variances for Growth and Carcass Traits of Purebred and Composite Populations of Beef Cattle, 1920
Genetic and Phenotypic (Co)Variances for Production Traits of Female Populations of Purebred and Composite Beef Cattle, 2235
Genetic and Phenotypic (Co)Variances for Production Traits of Intact Male Populations of Purebred and Composite Beef Cattle, 2227
Growth and Body Composition of Meishan and Yorkshire Barrows and Gilts, 738
Growth and Tissue Accretion of Lambs Fed Concentrate in Drylot, Grazed on Alfalfa or Ryegrass at Weaning, or After Backgrounding on Ryegrass, 3437
Growth Patterns in Selected Organs of the Miniature Swine as Determined by Gross Macromolecular Composition, 1340
Growth Performance, Carcass Characteristics, and Sensory Attributes of Boars Administered Porcine Somatotropin by Sustained-Release Implant for Different Lengths of Time, 3585
Immunization of Heifers Against Gonadotropin-Releasing Hormone: Antibody Titers, Ovarian Function, Body Growth, and Carcass Characteristics, 2382

Immunization of Prepubertal Beef Heifers Against Gonadotropin-Releasing Hormone: Immune, Estrus, Ovarian, and Growth Responses, 3030
Impact of Composition Manipulation on Lean Lamb Production in the United States, 2493
Influence of Chromium Tripicolinate on Glucose Metabolism and Nutrient Partitioning in Growing Lambs, 2694
Influence of Dietary β-Glucan on Growth Performance, Nonspecific Immunity, and Resistance to *Streptococcus suis* Infection in Weanling Pigs, 3341
Multistage Selection for Maximum Economic Return with an Application to Beef Cattle Breeding, 699
Nutritional Toxicology of Tannins and Related Polyphenols in Forage Legumes, 1516
Relationship of Rate of Lean Tissue Growth and Other Factors to Concentration of Urea in Plasma of Pigs, 3649
Relationships of Serum Insulin-Like Growth Factor I Concentrations to Growth, Composition, and Reproductive Traits of Swine, 3241
Review of Some Aspects of Growth and Development of Feedlot Cattle, 3152
Skeletal Growth Rates of Weanling and Yearling Thoroughbred Horses, 2513
Supplemental Protein Sources for Steers Fed Corn-Based Diets: II. Growth and Estimated Metabolizable Amino Acid Supply, 1476
Survival, Body Weights, Feed Efficiency, and Carcass Traits of ¾ White Composite and ¼ Duroc, ¼ Meishan, ¼ Fengjing, or ¼ Minzhu Pigs, 3534
The Effect of Dietary Lysine on Growth, Carcass Composition, and Lipid Metabolism in High-Lean Growth Gilts Fed from 72 to 136 Kilograms, 3392
The Effect of Dietary Methionine and Its Relationship to Lysine on Growth Performance of the Segregated Early-Weaned Pig, 3666
The Selection of Protein Intake by Pigs Treated with Porcine Somatotropin, 764
Toxicity and Growth-Promoting Potential of Spermine When Fed to Chicks, 2375
Utero-Placental Vascular Development and Placental Function, 1839
Growth Factors
143A, 221A
In-Vivo Analysis of Serum-Borne Growth Factors in Developing Co-Twinned Fetuses, 1689
Regulation of Muscle Cell Proliferation by Extracts from Crushed Muscle, 1972
Growth Hormone
112A, 113A, 137A, 138A, 143A, 147A, 148A, 150A, 151A, 152A, 216A, 219A, 223A, 230A, 61B
Growth Hormone Binding Proteins
152A
Growth Hormone-Releasing Factor
151A
Growth Hormone-Releasing Hormone
115A, 216A
Rapid Communication: Restriction Fragment Length Polymorphism in Amplification Products of the Bovine *Growth Hormone-Releasing Hormone* Gene, 3789
Growth Models
Prediction of Tissular Body Composition from Protein and Lipid Deposition in Growing Pigs, 1567
Growth Performance
154A, 171A
Growth Promoters
152A
Production Responses to Various Doses and Ratios of Estradiol Benzoate and Trenbolone Acetate Implants in Steers and Heifers, 2873
Growth Rate
238A
Effect of Diet Energy Concentration and of Age of Holstein-Friesian Bull Calves on Growth Rate, Urea Space and Fat Deposition, and Ruminal Volume, 1666
Effects of Single or Primary Plus Booster Prostaglandin $F_{2\alpha}$ Immunization Regimens on Immune, Ovarian, and Growth Responses of Heifers, 2406
Growth, Digestive Capability, Carcass, and Meat Characteristics of *Bison bison*, *Bos taurus*, and *Bos* × *Bison*, 1271
Growth and Estrous Behavior of Heifers Actively Immunized Against Prostaglandin $F_{2\alpha}$, 345
Growth Restriction
269A
Growth Traits
120A, 252A
Estimation of Non-Additive Genetic Variances in Three Synthetic Lines of Beef Cattle Using an Animal Model, 1002
Prediction of Genetic Values of Sires for Growth Traits of Crossbred Cattle Using a Multivariate Animal Model with Heterogeneous Variances, 2940
Gruel
185A
Guineagrass
Urea Ammoniation Effects on the Feeding Value of Guineagrass (*Panicum maximum*) Hay, 3085

H

Hair Sheep
124A
Hair Whorls
127A
Halothane Genotype
Effects of Preslaughter Muscle Exercise on Muscle Metabolism and Meat Quality Studied in Anesthetized Pigs of Different Halothane Genotypes, 108
Influence of Preslaughter Muscle Temperature on Muscle Metabolism and Meat Quality in Anesthetized Pigs of Different Halothane Genotypes, 96
Handling
125A, 248A
Haplotype
Rapid Communication: A Polymorphism Detected in Sheep Using a Complement Subcomponent C1r (*C1R*) Probe, 629
Hay
201A, 207A, 287A
Monensin and Ammoniation or Urea Supplementation of Bermudagrass Hay Diets for Steers, 1793
HCG
226A, 231A
Health
Blood Serum Concentrations of Selenium in Female Llamas (*Lama glama*) in Relationship to Feeding Practices, Region of United States, Reproductive Stage, and Health of Offspring, 337
The Specific-Stress-Free Housing System Has Positive Effects on Productivity, Health, and Welfare of Pigs, 1544
Health-Weaning Stress
238A
Heart
β-Adrenergic Receptor Subtype Transcripts in Porcine Adipose Tissue, 1962
Heart Rate
Cardiovascular Effects of Clenbuterol are β_2-Adrenoceptor-Mediated in Steers, 1754
Vocalization and Physiological Response of Pigs During Castration With or Without a Local Anesthetic, 381
Heat Production
Alteration of Heat Production in Young Calves in Relation to Posture, 2254
Effect of Cold Exposure on Profiles of Metabolic and Endocrine Responses and on Responses to Feeding and Arginine Injection in Sheep, 2054
Effects of Atrophic Rhinitis Induced by *Pasteurella multocida* Toxin on Heat Production and Activity of Pigs Kept Under Different Climatic Conditions, 1658
Heat Shock
221A, 228A
Developmental Changes in Sensitivity of Bovine Embryos to Heat Shock and Use of Antioxidants as Thermoprotectants, 1401

Heat Stress
131A, 132A, 141A, 150A, 182A, 231A, 250A
Breed Affects Thermoregulation and Epithelial Morphology in Imported and Native Cattle Subjected to Heat Stress, 3570
Heating Indices
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: II. Digestion of Artifacts of Heating, 835
Heifers
152A, 198A, 222A, 233A, 239A, 240A, 242A, 248A, 254A, 269A, 282A, 288A
Body Composition and Metabolic Profiles Associated with Puberty in Beef Heifers, 3409
Effect of Copper Depletion and Repletion on Lymphocyte Blastogenesis and Neutrophil Bactericidal Function in Beef Heifers, 2079
Effect of Prenatal Androgenization on Performance, Lactation, Carcass, and Sensory Traits of Heifers in a Single-Calf Heifer System, 986
Effects of Feed Intake and Dietary Level of Wet Corn Gluten Feed on Feedlot Performance, Digestibility of Nutrients, and Carcass Characteristics of Growing-Finishing Beef Heifers, 3246
Effects of Growth Rate on Carcass Composition and Lipid Partitioning at Puberty and Growth Hormone, Insulin-Like Growth Factor I, Insulin, and Metabolites Before Puberty in Beef Heifers, 2390
Effects of Postweaning Diet on Age and Weight at Puberty and Milk Production of Heifers, 63
Effects of Single or Primary Plus Booster Prostaglandin $F_{2\alpha}$ Immunization Regimens on Immune, Ovarian, and Growth Responses of Heifers, 2406
Endocrine and Ovarian Responses to Exogenous Estradiol-17β in 6-Month-Old Heifers Previously Immunized Against Growth Hormone-Releasing Factor, 2071
Growth and Estrous Behavior of Heifers Actively Immunized Against Prostaglandin $F_{2\alpha}$, 345
Immunization of Heifers Against Gonadotropin-Releasing Hormone: Antibody Titers, Ovarian Function, Body Growth, and Carcass Characteristics, 2382
Immunization of Prepubertal Beef Heifers Against Gonadotropin-Releasing Hormone: Immune, Estrus, Ovarian, and Growth Responses, 3030
Increased Postweaning Gain of Beef Heifers Enhances Fertility and Milk Production, 937
Influence of Forage Level and Naloxone Injection on Feed Intake, Digestion, and Plasma Hormone and Metabolite Concentrations in Dairy Heifers, 2677
Mifepristone (RU 486) Induces Parturition in Primiparous Beef Heifers and Reduces Incidence of Dystocia, 3421
Parturition and Periparturient Reproductive and Metabolic Hormone Concentrations in Prenatally Androgenized Beef Heifers, 3712
Hematuria
260A
Hennessy Probe
161A
Hepatocytes
274A
Herbivores
Endogenous Toxins and Mycotoxins in Forage Grasses and Their Effects on Livestock, 909
Hereford
199A
Heritabilities
111A, 113A, 118A
Estimation of Genetic Parameters for Growth, Feed Consumption, and Conformation Traits for Double-Muscled Belgian Blue Bulls Performance-Tested in Belgium, 3269
Estimation of Genetic Parameters for Litter Size in Canadian Yorkshire and Landrace Swine with Each Parity of Farrowing Treated as a Different Trait, 2959
Individual Differences in Docility in Limousin Cattle, 2249
Genetic and Phenotypic (Co)Variances for Growth and Carcass Traits of Purebred and Composite Populations of Beef Cattle, 1920
Genetic and Phenotypic (Co)Variances for Production Traits of Female Populations of Purebred and Composite Beef Cattle, 2235
Genetic and Phenotypic (Co)Variances for Production Traits of Intact Male Populations of Purebred and Composite Beef Cattle, 2227
Heterogeneity
Heterogeneity of Variance by Sire Breed, Sex, and Dam Breed in 200- and 365-Day Weights of Beef Cattle from a Top Cross Experiment, 2579
Prediction of Genetic Values of Sires for Growth Traits of Crossbred Cattle Using a Multivariate Animal Model with Heterogeneous Variances, 2940
Heterosis
117A, 236A
Tarentaise and Hereford Breed Effects on Cow and Calf Traits and Estimates of Individual Heterosis, 2574
Hexane
177A
High Fat Yeast
176A
High Forage Diets
285A
High Lysine
High-Lysine Corn as a Source of Protein and Energy for Finishing Calves, 228
High Moisture
268A
High Moisture Corn
281A, 283A
Hindlimb
Circadian Changes in Energy Expenditure in the Preruminant Calf: Whole Animal and Tissue Level, 552
Effects of Bovine Somatotropin and Insulin on Whole-Body and Hindlimb Glucose Metabolism in Growing Steers, 2263
Histology
146A
Injection-Site Lesions: Incidence, Tissue Histology, Collagen Concentration, and Muscle Tenderness in Beef Rounds, 3510
Holsteins
112A, 148A
Feedlot Performance and Carcass Characteristics of Holstein Steers as Affected by Source of Dietary Protein and Level of Ruminally Protected Lysine and Methionine, 3503
Influence of Roughage and Grain Processing in High-Concentrate Diets on the Performance of Long-Fed Holstein Steers, 1888
Homeorhesis
Regulation of Organic Nutrient Metabolism During Transition from Late Pregnancy to Early Lactation, 2804
Hormones
131A, 152A
Dietary Protein and(or) Energy Restriction in Mares: Plasma Glucose, Insulin, Nonesterified Fatty Acid, and Urea Nitrogen Responses to Feeding, Glucose, and Epinephrine, 136
Differential Effects of Plane of Protein or Energy Nutrition on Visceral Organs and Hormones in Lambs, 1674
Effects of Free Gossypol in the Diet of Pregnant and Postpartum Brahman Cows on Calf Development and Cow Performance, 496
Endocrine and Metabolic Response to Muscarinic Stimulation and Inhibition in the Ruminant: Effects of Slaframine, 3673
Endocrine Responses in Cows Fed Ponderosa Pine Needles and the Effects of Stress, Corpus Luteum Regression, Progestin, and Ketoprofen, 198
Influence of Chromium Tripicolinate on Glucose Metabolism and Nutrient Partitioning in Growing Lambs, 2694
Hormone Secretion
Technical Note: Subjective Enumeration of Episodic Events (Spikes) in Animal Physiology Experiments, 1164
Hormone-Sensitive Lipase
146A
Horses
129A, 142A, 183A, 184A, 199A, 206A, 207A, 250A
Acid-Base Variables During Incremental Exercise in Sprint-Trained Horses Fed a High-Fat Diet, 2009
Equine Fescue Toxicosis: Signs and Solutions, 899
Skeletal Growth Rates of Weanling and Yearling Thoroughbred Horses, 2513
Trace Mineral Supplementation of Yearling Horses, 466
Hot-Fat Removal
164A
Effects of Breed Type and Accelerated Fat Removal on Subprimal Yields and Carcass Values, 1055
Microbiology of Hot-Fat-Trimmed Beef, 1368

Housing
The Specific-Stress-Free Housing System Has Positive Effects on Productivity, Health, and Welfare of Pigs, 1544
Hrodeum Volgare L.
179A
HSP70
221A
Human Medicine
Instructing the Animal Physiology Graduate Student in Human Assisted Reproductive Technology, 2503
Hybrids
Effect of Corn Hybrid and Grain Processing Method on Rate of Starch Disappearance and Performance of Finishing Cattle, 360
Hydration
Kinetics of Hydration and Functional Specific Gravity of Fibrous Feed By-Products, 1449
Hydrocortisone
Cortisol Secretion and Growth in Ewe Lambs Chronically Exposed to Electric and Magnetic Fields of a 60-Hertz 500-Kilovolt AC Transmission Line, 3274
Plasma Cortisol and White Blood Cell Responses in Different Breeds of Bulls: A Comparison of Two Methods of Castration, 975
Stress-Associated Concentrations of Plasma Cortisol Cannot Account for Reduced Lymphocyte Function and Changes in Serum Enzymes in Lambs Exposed to Restraint and Isolation Stress, 812
Hydrogenation
The Effect of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: I. Organic Matter, Energy, Fiber, and Fatty Acid Digestion, 2120
Hydrolyzable Tannins
Nutritional Toxicology of Tannins and Related Polyphenols in Forage Legumes, 1516
3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase
Rapid Communication: A *Dra*I Restriction Fragment Length Polymorphism at the Porcine *3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase (HMGCoAR)* Locus, 310
Hypertrophy
168A
Hypothalamus
Biogenic Amines in the Hypothalamus of Rats After Diethyldithiocarbamate or AIMAX Treatment, an Alternative for Norepinephrine Depletion, 1147

I

Ideal Protein
182A, 190A
IGF
138A, 215A
Placental-Fetal Hormonal Interactions: Impact on Fetal Growth, 1861
IGF Binding Proteins
152A, 220A, 225A
IGF-I
138A, 139A, 142A, 143A, 145A, 148A, 150A, 152A, 184A, 219A, 222A, 269A, 275A
Effects of Insulin-Like Growth Factor I and Insulin on Proliferation and on Basal and Luteinizing Hormone-Induced Steroidogenesis of Bovine Thecal Cells: Involvement of Glucose and Receptors for Insulin-Like Growth Factor I and Luteinizing Hormone, 3719
IGF-I Expression
144A
IGF-II
142A
IGF-I Receptor
115A
Ileal Digestibility
Determination of Apparent Ileal Amino Acid Digestibility in Barley and Canola Meal for Pigs with the Direct, Difference, and Regression Methods, 2364
Ileal Dry Matter
Dietary Level and Source of Neutral Detergent Fiber and Ileal Endogenous Nitrogen Flow in Pigs, 441
Ileal Endogenous Nitrogen
Dietary Level and Source of Neutral Detergent Fiber and Ileal Endogenous Nitrogen Flow in Pigs, 441
Ileum
Estimation by Regression Analysis of Endogenous Amino Acid Levels in Digesta Collected from the Distal Ileum of Pigs, 2319
Image Processing
163A
Immune Response
186A
Effects of Excess Dietary Leucine and Leucine Catabolites on Growth and Immune Responses in Weanling Pigs, 159
Immune Response, Glucose Metabolism, and Performance of Stressed Feeder Calves Fed Inorganic or Organic Chromium, 2721
Immune System
150A
Immunity
128A, 281A
Influence of Dietary β-Glucan on Growth Performance, Nonspecific Immunity, and Resistance to *Streptococcus suis* Infection in Weanling Pigs, 3341
Immunization
208A
Effects of Single or Primary Plus Booster Prostaglandin $F_{2\alpha}$ Immunization Regimens on Immune, Ovarian, and Growth Responses of Heifers, 2406
Growth and Estrous Behavior of Heifers Actively Immunized Against Prostaglandin $F_{2\alpha}$, 345
Immunization of Heifers Against Gonadotropin-Releasing Hormone: Antibody Titers, Ovarian Function, Body Growth, and Carcass Characteristics, 2382
Immunization of Prepubertal Beef Heifers Against Gonadotropin-Releasing Hormone: Immune, Estrus, Ovarian, and Growth Responses, 3030
Passive Immunization of Ewes Against an Inhibin-Like Peptide Increases Follicle-Stimulating Hormone Concentrations, Ovulation Rate, and Prolificacy in Spring-Mated Ewes, 1433
Immunoassay
253A
Immunocytochemistry
213A
Immunogen
219A
Immunoglobulin G
The Effect of Ewe Body Condition at Lambing on Colostral Immunoglobulin G Concentration and Lamb Performance, 2860
Immunoglobulins
171A
Influence of Calf Genotype on Colostral Immunoglobulins in *Bos taurus* and *Bos indicus* Cows and Serum Immunoglobulins in Their Calves, 3044
Prepartum Nutrition and Solar Radiation in Beef Cattle: II. Residual Effects on Postpartum Milk Yield, Immunoglobulin, and Calf Growth, 1303
Immunohistochemistry
Immunohistochemical Microquantification of Fast-Myosin in Frozen Histological Sections of Mammalian Skeletal Muscles, 88
Immunology
265A
Immunomicroscopy
161A
Impedance
Development and Evaluation of a Regression Equation of Prediction for Fat-Free Soft Tissue in Heterogenous Populations of Cattle, 3627
Implantation
280A
Implants
166A, 237A, 240A, 255A
Use of Genetically Identical (Clone) Steers to Determine the Effects of Estrogenic and Androgenic Implants on Beef Quality and Palatability Characteristics, 3317
Inbreeding
116A, 154A
Comparison of Evaluation-Selection Systems for Maximizing Genetic Response at the Same Level of Inbreeding, 2208

Incidence
Injection-Site Lesions: Incidence, Tissue Histology, Collagen Concentration, and Muscle Tenderness in Beef Rounds, 3510
Income Risk
243A
Index of Relative Protein Yield
112A
Indices
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: II. Digestion of Artifacts of Heating, 835
Individual Multilocus Genotype
Individual Multilocus Genotypes Using Microsatellite Polymorphisms to Permit the Analysis of the Genetic Variability Within and Between Italian Beef Cattle Breeds, 3259
Induction
Reducing Pig Mortality Through Supervision During the Perinatal Period, 3543
Industry
Changing Paradigms in Animal Agriculture: The Role of Academia and Industry in Technology Transfer, 3173
Improvement of Beef Tenderness and Quality Traits with Calcium Chloride Injection in Beef Loins 48 Hours Postmortem, 750
Postmortem Injection of Calcium Chloride Effects on Beef Quality Traits, 1735
Retail Consumer Acceptance of Beef Tenderized with Calcium Chloride, 2308
Infertility
Detection of the Effects of Phytoestrogens on Sheep and Cattle, 1509
Inflammation
18B
Inhibin
210A
Passive Immunization of Ewes Against an Inhibin-Like Peptide Increases Follicle-Stimulating Hormone Concentrations, Ovulation Rate, and Prolificacy in Spring-Mated Ewes, 1433
Initial Weight
256A
Injection-Site Lesions
Injection-Site Lesions in Carcasses of Cattle Receiving Injections at Branding and at Weaning, 3235
Injury
Regulation of Muscle Cell Proliferation by Extracts from Crushed Muscle, 1972
Insemination
232A
In Situ
Influence of Altering Ruminal Degradation of Soybean Meal Protein on In Situ Ruminal Fiber Disappearance of Forages and Fibrous Byproducts, 2428
Technical Note: Comparison of In Vitro and In Situ Digestibility Methods, 578
In Situ Digestibility
288A
Insulin
113A, 137A, 138A, 140A, 184A, 218A, 219A
Cysteamine-Induced Depletion of Somatostatin in Sheep: Time Course of Depletion and Changes in Plasma Metabolites, Insulin, and Growth Hormone, 77
Dietary Chromium Picolinate Additions Improve Gain:Feed and Carcass Characteristics in Growing-Finishing Pigs and Increase Litter Size in Reproducing Sows, 457
Dose Response of Plasma Insulin and Glucagon to Intravenous *n*-Butyrate Infusion in Sheep, 3038
Effect of Chromium Tripicolinate on Growth, Glucose Tolerance, Insulin Sensitivity, Plasma Metabolites, and Growth Hormone in Pigs, 1123
Effect of Cold Exposure on Profiles of Metabolic and Endocrine Responses and on Responses to Feeding and Arginine Injection in Sheep, 2054
Effects of Bovine Somatotropin and Insulin on Whole-Body and Hindlimb Glucose Metabolism in Growing Steers, 2263
Effects of Insulin-Like Growth Factor I and Insulin on Proliferation and on Basal and Luteinizing Hormone-Induced Steroidogenesis of Bovine Thecal Cells: Involvement of Glucose and Receptors for Insulin-Like Growth Factor I and Luteinizing Hormone, 3719
Effects of Limit Feeding a High-Grain Diet on Puberty and Reproductive Performance of Ewes, 3206
Insulin and(or) Dexamethasone Regulation of Glucose and Acetate Utilization in Ovine and Bovine Adipose Tissue Explants Incubated for Seven Days, 2063
Maternal and Fetal Blood Levels of Glucose, Lactate, Fructose, and Insulin in the Conscious Pig, 2994
Metabolic and Luteal Sequelae to Heightened Dietary Fat Intake in Undernourished, Anestrous Beef Cows Induced to Ovulate, 2086
Plasma Insulin and Glucagon Responses to Propionate Infusion into Femoral and Mesenteric Veins in Sheep, 191
Plasma Protein for Pigs Weaned at 19 to 24 Days of Age: Effect on Performance and Plasma Insulin-Like Growth Factor I, Growth Hormone, Insulin, and Glucose Concentrations, 3657
Prenatal Androgenization of Lambs: I. Alterations of Growth, Carcass Characteristics, and Metabolites in Blood, 1694
The Pattern of the Circadian Rhythm of Pancreatic Secretion in Fed Pigs, 3402
Insulin-Like Growth Factors
150A, 189A, 213A, 225A
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth Factor and Metabolic Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1318
Divergent Selection for Blood Serum Insulin-Like Growth Factor I Concentration in Beef Cattle: I. Nongenetic Effects, 1927
Effect of Dietary Protein and Estradiol-17β on Growth and Insulin-like Growth Factor I in Cattle During Realimentation, 589
Effects of Growth Hormone and Ovariectomy on Performance, Serum Hormones, Insulin-Like Growth Factor-Binding Proteins, and Muscle Fiber Properties of Prepubertal Friesian Heifers, 3574
Effects of Recombinant Porcine Somatotropin on Placental Size, Fetal Growth, and IGF-I and IGF-II Concentrations in Pigs, 2980
Metabolic and Luteal Sequelae to Heightened Dietary Fat Intake in Undernourished, Anestrous Beef Cows Induced to Ovulate, 2086
Plasma Growth Hormone, Insulin-Like Growth Factor I, and Insulin-Like Growth Factor Binding Proteins in Pigs with Divergent Genetic Merit for Postweaning Average Daily Gain, 1776
Plasma Protein for Pigs Weaned at 19 to 24 Days of Age: Effect on Performance and Plasma Insulin-Like Growth Factor I, Growth Hormone, Insulin, and Glucose Concentrations, 3657
Recombinant Bovine Somatotropin Increases Milk Yield and Calf Gain in Diverse Breeds of Beef Cattle: Associated Changes in Hormones and Indices of Metabolism, 3051
Relationships of Serum Insulin-Like Growth Factor I Concentrations to Growth, Composition, and Reproductive Traits of Swine, 3241
Serum Hormones, Follicular Fluid Steroids, Insulin-Like Growth Factors and Their Binding Proteins, and Ovarian IGF mRNA in Sheep with Different Ovulation Rates, 1152
The Role of Insulin-Like Growth Factor I in Clenbuterol-Stimulated Growth in Growing Lambs, 3069
Insulin-Like Growth Factor I
Dietary Protein and(or) Energy Restriction in Mares: Plasma Growth Hormone, IGF-I, Prolactin, Cortisol, and Thyroid Hormone Responses to Feeding, Glucose, and Epinephrine, 1424
Intake
195A, 196A, 205A, 247A, 260A
Characteristics of Plant Cell Walls Affecting Intake and Digestibility of Forages by Ruminants, 2774
Dietary Fiber for Cats: In Vitro Fermentation of Selected Fiber Sources by Cat Fecal Inoculum and In Vivo Utilization of Diets Containing Selected Fiber Sources and Their Blends, 2329
Dietary Fiber for Dogs: IV. In Vitro Fermentation of Selected Fiber Sources by Dog Fecal Inoculum and In Vivo Digestion and Metabolism of Fiber-Supplemented Diets, 1099
Effect of Breed, Intake, and Carcass Composition on the Status of Several Macro and Trace Minerals of Adult Beef Cattle, 2113
Effect of Monensin and Monensin and Tylosin Combination on Feed Intake Variation of Feedlot Steers, 39

Feeding Behavior and Management Factors During the Transition Period in Dairy Cattle, 2791
Influence of Forage Level and Naloxone Injection on Feed Intake, Digestion, and Plasma Hormone and Metabolite Concentrations in Dairy Heifers, 2677
Intake and Digestion of Low-, Medium-, and High-Quality Grass Hays by Lambs Receiving Increasing Levels of Corn Supplementation, 2156
Nutritional Toxicology of Tannins and Related Polyphenols in Forage Legumes, 1516
Plant Compositional Constituents Affecting Between-Plant and Animal Species Prediction of Forage Intake, 2447
Integrated Resource Management
239A
Integration
133A, 195A
Intellectual Property
122A
Intensive Production
Farm Animal Well-Being and Intensive Production Systems, 2744
Interactions
119A
Intercropping
259A
Interferon-τ
221A
Interleukin-1
221A
Internal Parasites
246A
International Genetic Evaluation
119A
Intestines
Effects of Protein Source on Nitrogen Metabolism in Continuous Culture and Intestinal Digestion In Vitro, 1819
Intramuscular Fat Percentage
163A
Intramuscular Injection
193A
Injection-Site Lesions: Incidence, Tissue Histology, Collagen Concentration, and Muscle Tenderness in Beef Rounds, 3510
Intron Sequences
115A
Investigator
The Responsibilities of Investigators, Monitors, and Sponsors of Clinical Studies Supporting New Animal Drug Applications, 606
In Vitro
A Three-Step In Vitro Procedure for Estimating Intestinal Digestion of Protein in Ruminants, 1459
Measurement and Kinetic Analysis of the Neutral Detergent-Soluble Carbohydrate Fraction of Legumes and Grasses, 3455
Technical Note: Comparison of In Vitro and In Situ Digestibility Methods, 578
In Vitro Culture
Effect of Malate on In Vitro Mixed Ruminal Microorganism Fermentation, 2141
Effect of Media Substitutes on Bovine Granulosa Cell Function and Proliferation During In Vitro Culture, 3287
In Vitro Digestibility
204A
Effects of Protein Source on Nitrogen Metabolism in Continuous Culture and Intestinal Digestion In Vitro, 1819
In Vitro Fertilization
227A
Transvaginal Aspiration of Oocytes from Hormone-Treated Pregnant Beef Cattle for In Vitro Fertilization, 967
In Vitro Maturation
226A, 229A
Ion Balance
Acid-Base Variables During Incremental Exercise in Sprint-Trained Horses Fed a High-Fat Diet, 2009
Ionophores
285A
Efficacy of Laidlomycin Propionate to Reduce Ruminal Acidosis in Cattle, 3445
Iron
172A, 266A
Estimates of Zinc and Iron Bioavailability in Pork Liver and the Effect of Sex of Pig on the Bioavailability of Copper in Pork Liver Fed to Male and Female Chicks, 793
Isocupressic Acid
208A
Isopropyl Alcohol
177A
Isotope Dilution Method
Dietary Level and Source of Neutral Detergent Fiber and Ileal Endogenous Nitrogen Flow in Pigs, 441
Isotope Labeling
True Digestibility of Amino Acids and Protein in Pigs with ^{13}C as a Label to Determine Endogenous Amino Acid Excretion, 1077
Isotopes
Prediction of Carcass and Empty Body Composition of Steers by ^{40}K Emission Detection, 2882
Issues
290A

J

Judging Teams
292A

K

Ketosis
1B
Kinetics
Influence of Moisture Content of Forage on Ruminal Functional Specific Gravity and Passage of Digesta, 3094
Measurement and Kinetic Analysis of the Neutral Detergent-Soluble Carbohydrate Fraction of Legumes and Grasses, 3455

L

L-163,255
148A
Lactating Sows
250A
Lactation
147A, 151A, 245A, 250A, 280A
36B, 61B
A Potential Strategy for Decreasing Milk Production in the Ewe at Weaning Using a Growth Hormone Release Blocker, 1901
A Technique for the Venous Cannulation of the Mammary Gland in the Lactating Sow, 1390
Dietary and Plasma Branched-Chain Amino Acids in Relation to Tryptophan: Effect on Voluntary Feed Intake and Lactation Metabolism in the Primiparous Sow, 1086
Effects of Energy or Protein Supplements and Stage of Production on Intake and Digestibility of Hay by Beef Cows, 651
Effects of Feeding a High-Grain Diet at a Restricted Intake on Lactation Performance and Rebreeding of Ewes, 3199
Effects of Feeding Wash-Water Solids on Health and Performance of Ewes and Lambs, 3552
Production by Ewes Rearing Single or Twin Lambs: Effects of Dietary Crude Protein Percentage and Supplemental Zinc Methionine, 1227
Reducing Particle Size of Corn in Lactation Diets from 1,200 to 400 Micrometers Improves Sow and Litter Performance, 421
Regulation of Organic Nutrient Metabolism During Transition from Late Pregnancy to Early Lactation, 2804
Lactational Response
249A
Lactation Length
139A
Lactic Acid
173A, 188A
Acid-Base Variables During Incremental Exercise in Sprint-Trained Horses Fed a High-Fat Diet, 2009

Insulin and Glucagon Regulation of Gluconeogenesis in Preruminating and Ruminating Bovine, 546
Lactic Acidosis
Preventing In Vitro Lactate Accumulation in Ruminal Fermentations by Inoculation with *Megasphaera elsdenii*, 250
Lactitol
180A
Lactobacilli
Effect of Weaning Diet on the Ecology of Adherent Lactobacilli in the Gastrointestinal Tract of the Pig, 2347
Lactogenesis
136A
Lactose
171A
Effect of Weaning Diet on the Ecology of Adherent Lactobacilli in the Gastrointestinal Tract of the Pig, 2347
Laidlomycin Propionate
Efficacy of Laidlomycin Propionate to Reduce Ruminal Acidosis in Cattle, 3445
Lambing Rate
Selection for Lambing Rate and Clean Fleece in Sheep, 3195
Lamb (Meat)
Effects of Dietary Supplementation of Vitamin E on Storage and Caselife Properties of Lamb Retail Cuts, 399
Lamb Production
245A, 279A
Breed Effects of Foster Lamb and Foster Dam on Lamb Viability and Growth, 1559
Impact of Composition Manipulation on Lean Lamb Production in the United States, 2493
The Effect of Ewe Body Condition at Lambing on Colostral Immunoglobulin G Concentration and Lamb Performance, 2860
The Effects of *In Utero* Exposure of Lambs to a β-Adrenergic Agonist on Prenatal and Postnatal Muscle Growth, Carcass Cutability, and Meat Tenderness, 2986
Lambs
138A, 165A, 205A, 258A, 259A, 265A, 279A, 284A
Acute Hepatic and Renal Toxicity in Lambs Dosed with Fumonisin-Containing Culture Material, 508
Collagen Characteristics of Skin, Fell, and Epimysium from Rams, Wethers, and Zeranol-Implanted Ram Lambs, 393
Cortisol Secretion and Growth in Ewe Lambs Chronically Exposed to Electric and Magnetic Fields of a 60-Hertz 500-Kilovolt AC Transmission Line, 3274
Differential Effects of Plane of Protein or Energy Nutrition on Visceral Organs and Hormones in Lambs, 1674
Effects of Dietary Protein Percentage and β-Agonist Administered to Prepubertal Ewes on Mammary Gland Growth and Hormone Secretions, 2655
Effects of Limit Feeding a High-Grain Diet on Puberty and Reproductive Performance of Ewes, 3206
Growth and Tissue Accretion of Lambs Fed Concentrate in Drylot, Grazed on Alfalfa or Ryegrass at Weaning, or After Backgrounding on Ryegrass, 3437
Influence of Chromium Tripicolinate on Glucose Metabolism and Nutrient Partitioning in Growing Lambs, 2694
Influence of Nitrogen Fertilization and Defoliation Frequency on Nitrogen Constituents and Feeding Value of Annual Ryegrass, 2474
Intake and Digestion of Low-, Medium-, and High-Quality Grass Hays by Lambs Receiving Increasing Levels of Corn Supplementation, 2156
Mineral and Nitrogen Balance in Lambs Implanted with Zeranol, 3785
Prenatal Androgenization of Lambs: I. Alterations of Growth, Carcass Characteristics, and Metabolites in Blood, 1694
Prenatal Androgenization of Lambs: II. Metabolism in Adipose Tissue and Liver, 1701
Production by Ewes Rearing Single or Twin Lambs: Effects of Dietary Crude Protein Percentage and Supplemental Zinc Methionine, 1227
The Effects of Ruminal Acidosis on Volatile Fatty Acid Absorption and Plasma Activities of Pancreatic Enzymes in Lambs, 3111
Land-Grant Universities
Consumer Concerns About Modern Technology in Agriculture: Considerations for Undergraduate and Graduate Teaching, 2727
Landim
Comparison of Landim and Africander Cattle in Southern Mozambique: I. Body Weights and Growth, 3519
Comparison of Landim and Africander Cattle in Southern Mozambique: II. Female Fertility, Reproduction, and Beef Offtake, 3527
Large Round Bales
203A
L-aspartate
212A
Lead
186A
Lean Yield
170A
Pork Carcass Evaluation with an Automated and Ultrasonic System, 29
Legislation
122A
Legumes
Detection of the Effects of Phytoestrogens on Sheep and Cattle, 1509
Leucaena Toxicosis and Its Control in Ruminants, 1487
Protein and Energy Utilization by Ruminants at Pasture, 278
Leg Weakness
Effect of Divergent Selection for Postweaning Average Daily Gain on Front-End Soundness of Market-Weight Pigs, 1940
Lesions
Injection-Site Lesions: Incidence, Tissue Histology, Collagen Concentration, and Muscle Tenderness in Beef Rounds, 3510
Leucaena
154A, 259A
Leucaena Toxicosis and Its Control in Ruminants, 1487
Leucine
Effects of Amino Acids Administered to a Perfused Area of the Skin in Angora Goats, 565
Effects of Excess Dietary Leucine and Leucine Catabolites on Growth and Immune Responses in Weanling Pigs, 159
Leukocytes
223A
Leydig Cells
Growth of Testes and Testicular Morphology After Eight Generations of Selection for Increased Predicted Weight of Testes at 150 Days of Age in Boars, 2186
LH
212A, 219A, 222A, 223A
Effects of Energy Source in the Diet on Reproductive Hormones and Insulin During Lactation and Subsequent Estrus in Multiparous Sows, 3022
Endocrine and Ovarian Responses to Exogenous Estradiol-17β in 6-Month-Old Heifers Previously Immunized Against Growth Hormone-Releasing Factor, 2071
Glucose and Free Fatty Acid Modulation of Growth Hormone and Luteinizing Hormone Secretion by Cultured Porcine Pituitary Cells, 1416
Serum Concentrations of Luteinizing Hormone, Growth Hormone, and Prolactin in Untreated and Estradiol-Treated Ovariectomized Ewes After Immunoneutralization of Hypothalamic Neuropeptide Y, 2105
LHRH
219A
Libido
132A
Lice
134A
Light Chain RHA
148A
Light-Test Weight
286A
Limb Bones
141A
Limiting Amino Acids
181A
Limousin
Individual Differences in Docility in Limousin Cattle, 2249
Linear Models
114A
Use of Plasma Urea Nitrogen as a Rapid Response Criterion to Determine the Lysine Requirement of Pigs, 472

Linolenic
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: I. Dietary Level of Flaxseed, 1982
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: II. Duration of 15 Dietary Flaxseed, 1987
Lipid
Effects of Growth Rate on Carcass Composition and Lipid Partitioning at Puberty and Growth Hormone, Insulin-Like Growth Factor I, Insulin, and Metabolites Before Puberty in Beef Heifers, 2390
Lipid Accretion
Protein and Lipid Accretion in Body Components of Growing Gilts (20 to 45 Kilograms) as Affected by Energy Intake, 2355
Lipid Mobilization
225A
Lipid Oxidation
160A
Lipid Oxidation, Retail
164A
Lipid Peroxidation
208A
Effects of Dietary Supplementation of Vitamin E on Storage and Caselife Properties of Lamb Retail Cuts, 399
Influence of Dietary Vitamin E on the Oxidative Stability and Quality of Pig Meat, 3122
Lipids
151A, 279A
A Review of Dietary Vitamin E Supplementation for Improvement of Beef Quality, 3131
Lipid Stability
160A
Lipid Supplementation
223A
Lipogenesis
140A, 146A
Lipogenic Activity of Intramuscular and Subcutaneous Adipose Tissues from Steers Produced by Different Generations of Angus Sires, 1310
Lipolysis
146A
Glucagon Binding to Receptors on the Surface of Chicken Adipocytes, 728
Lipoprotein Lipase
213A
Lipoproteins
151A, 217A
Litter Performance
154A
Litters
Effect of Supplemental Yeast Culture in Sow Gestation and Lactation Diets on Apparent Nutrient Digestibilities and Reproductive Performance Through One Reproductive Cycle, 1741
Litter Size
109A, 211A, 218A
Differences in Pup Birth Weight, Pup Variability Within Litters, and Dam Weight of Mice Selected for Alternative Criteria to Increase Litter Size, 1948
Estimation of Genetic Parameters for Litter Size in Canadian Yorkshire and Landrace Swine with Each Parity of Farrowing Treated as a Different Trait, 2959
Reproduction of F_1 Meishan, Fengjing, Minzhu, and Duroc Gilts and Sows, 711
Uterine Mass and Uterine Blood Volume in Mice Selected 21 Generations for Alternative Criteria to Increase Litter Size, 2243
Liver
256A, 266A, 270A, 274A
Circadian Changes in Energy Expenditure in the Preruminant Calf: Whole Animal and Tissue Level, 552
Copper Bioavailability in Pork Liver and in Various Animal By-Products as Determined by Chick Bioassay, 799
Effects of Spray-Dried Porcine Plasma Protein on Growth Traits and Nitrogen and Energy Balance in Mice, 2340
Estimates of Zinc and Iron Bioavailability in Pork Liver and the Effect of Sex of Pig on the Bioavailability of Copper in Pork Liver Fed to Male and Female Chicks, 793
Influence of Incremental Zeranol Implant Doses on the Chemical and Physical Characteristics of Third Metacarpal Bone and Chemical Composition of Liver and Soft Tissue from Feedlot Steers, 1
Portal and Hepatic Fluxes in Sheep and Concentrations in Cattle Ruminal Fluid of 3-(4-Hydroxyphenyl)propionic, Benzoic, 3-Phenylpropionic, and *trans*-Cinnamic Acids, 1766
Prenatal Androgenization of Lambs: II. Metabolism in Adipose Tissue and Liver, 1701
Visceral Oxygen Consumption During Chronic Feed Restriction and Realimentation in Sheep, 843
Liver Abscesses
285A
Effects of Dietary Virginiamycin on Performance and Liver Abscess Incidence in Feedlot Cattle, 9
Liver Biopsy
256A
Liver Cells
Effects of Glycine and Bovine Serum Albumin on Inhibition of Propionate Metabolism in Ovine Hepatocytes Caused by Reduced Phenolic Monomers, 3009
Livestock
122A, 123A, 135A
Control of Blood Flow to the Gravid Uterus of Domestic Livestock Species, 1852
Endogenous Toxins and Mycotoxins in Forage Grasses and Their Effects on Livestock, 909
Livestock Wastes
Environmental Considerations of Livestock Producers, 2733
Live Weight Gain
Influences of Amount of Pedigree Information on Computing Time and of Model Assumptions on Restricted Maximum-Likelihood Estimates of Population Parameters in Swiss Black-Brown Mountain Sheep, 2213
Plasma Cortisol and White Blood Cell Responses in Different Breeds of Bulls: A Comparison of Two Methods of Castration, 975
Llamas
Blood Serum Concentrations of Selenium in Female Llamas (*Lama glama*) in Relationship to Feeding Practices, Region of United States, Reproductive Stage, and Health of Offspring, 337
Longissimus
168A
Low Fat
245A
Low-Quality Forage
Influence of Processing Supplemental Alfalfa on Intake and Digestion of Dormant Bluestem-Range Forage by Steers, 1187
L-Selectin
266A
Lungs
β-Adrenergic Receptor Subtype Transcripts in Porcine Adipose Tissue, 1962
Lupins
180A
Luteal Cells
217A
Effect of Pregnancy-Specific Protein B on Luteal Cell Progesterone, Prostaglandin, and Oxytocin Production During Two Stages of the Bovine Estrous Cycle, 2662
Luteinizing Hormone
218A, 233A
Luteolysis
217A
Temporal Relationships Between Stress Protein Induction, Progesterone Withdrawal, and Apoptosis in Corpora Lutea of Ewes Treated with Prostaglandin $F_{2\alpha}$, 1789
Lymphocytes
Effect of Copper Depletion and Repletion on Lymphocyte Blastogenesis and Neutrophil Bactericidal Function in Beef Heifers, 2079
Stress-Associated Concentrations of Plasma Cortisol Cannot Account for Reduced Lymphocyte Function and Changes in

Serum Enzymes in Lambs Exposed to Restraint and Isolation Stress, 812
Lysine
139A, 180A, 182A, 183A, 190A, 191A, 195A, 270A
Effect on Performance and Carcass Characteristics of Nursery to Finisher Pigs Fed Reduced Crude Protein, Amino Acid-Supplemented Diets, 433
Effects of Amino Acids Administered to a Perfused Area of the Skin in Angora Goats, 565
Ideal Digestible Lysine Level for Early- and Late-Finishing Swine, 773
Interaction of Diet Composition and a Reduced Nocturnal Temperature Regimen in Weanling Pigs, 2518
Interactive Effects of Feed Intake and Stage of Growth on the Lysine Requirement of Pigs, 3369
Lysine Oxidation by Growing Pigs Receiving Diets Containing Free and Protein-Bound Lysine, 785
Optimum Ratio to Lysine of Threonine, Tryptophan, and Sulfur Amino Acids for Finishing Swine, 482
Relationship of Rate of Lean Tissue Growth and Other Factors to Concentration of Urea in Plasma of Pigs, 3649
Use of Plasma Urea Nitrogen as a Rapid Response Criterion to Determine the Lysine Requirement of Pigs, 472
Lysis
Fractionation of Nitrogen Isotopes by Mixed Ruminal Bacteria, 257
Lysoforte®
176A

M

Macrominerals
207A
Magnetic Resonance Imaging
137A
Maintenance
Relationships Among Heat Production, Body Weight, and Age in Suffolk and Texel Ewes, 1030
Maize
Effect of Protein Supplementation on Forage Intake and Nitrogen Balance of Lambs Fed Freshly Harvested Wheat Forage, 2687
Influence of Grain Type, Tallow Level, and Tallow Feeding System on Feedlot Cattle Performance, 2916
Interaction of Feed Intake Level on Comparative Ruminal and Total Tract Digestion of Dry-Rolled and Steam-Flaked Corn, 1239
In Vitro Ouabain-Sensitive Respiration and Protein Synthesis in Rumen Epithelial Papillae of Hereford Steers Fed Either Timothy Hay or Timothy Hay Supplemented with Cracked Corn Once Daily, 3775
Reducing Particle Size of Corn in Lactation Diets from 1,200 to 400 Micrometers Improves Sow and Litter Performance, 421
Maize Silage
Desirable Characteristics of Forage Legumes for Improving Protein Utilization in Ruminants, 2760
Malate
284A
Malic Acid
254A
Effect of Malate on In Vitro Mixed Ruminal Microorganism Fermentation, 2141
Malignant Hyperthermia
162A
Mammals
Immunohistochemical Microquantification of Fast-Myosin in Frozen Histological Sections of Mammalian Skeletal Muscles, 88
Mammary Gland
189A
1B, 36B, 61B
A Technique for the Venous Cannulation of the Mammary Gland in the Lactating Sow, 1390
Effects of Dietary Protein Percentage and β-Agonist Administered to Prepubertal Ewes on Mammary Gland Growth and Hormone Secretions, 2655
The Effect of Caffeine on Mammary Gland Development and Milk Yield in Primiparous Sows, 534
Mammary Secretory Epithelial Cells
18B
Mammogenesis
288A
Management
133A, 227A, 247A, 290A
Parturition and Periparturient Reproductive and Metabolic Hormone Concentrations in Prenatally Androgenized Beef Heifers, 3712
Management Decisions
133A
Manganese
253A, 277A
Mange Mites
134A
Mannan-Oligosaccharide
175A
Manure Recycling
200A
Manures
248A, 273A, 275A
Environmental Considerations of Livestock Producers, 2733
Marbling
158A
Mares
215A
Dietary Protein and(or) Energy Restriction in Mares: Plasma Glucose, Insulin, Nonesterified Fatty Acid, and Urea Nitrogen Responses to Feeding, Glucose, and Epinephrine, 136
Dietary Protein and(or) Energy Restriction in Mares: Plasma Growth Hormone, IGF-I, Prolactin, Cortisol, and Thyroid Hormone Responses to Feeding, Glucose, and Epinephrine, 1424
Feed Deprivation of Mares: Plasma Metabolite and Hormonal Concentrations and Responses to Exercise, 3696
Marker Assisted Selection
109A
Markers
The Poisson Process as a Model for Compartment Digesta Flow in Ruminants, 177
Marketing
243A
Meat Goat Production and Marketing, 291
Mass Balance
275A
Mastitis
112A, 1B
Subclinical Mastitis and Milk Production in Primiparous Simmental Cows, 1552
Maternal Effects
237A
Direct and Maternal Genetic Responses to Selection for Weaning or Yearling Weight or for Yearling Weight and Muscle Score in Hereford Cattle, 2951
Estimation of Variances Due to Direct and Maternal Effects for Growth Traits of Nelore Cattle, 3253
Influences of Amount of Pedigree Information on Computing Time and of Model Assumptions on Restricted Maximum-Likelihood Estimates of Population Parameters in Swiss Black-Brown Mountain Sheep, 2213
Maternal Growth
236A
Maternity
283A
Maturity
Effects of Slaughter Age on Meat Tenderness and USDA Carcass Maturity Scores of Beef Females, 3304
Measurement
Technical Note: Detection and Quantification of Supplemental Fungal β-Glucanase Activity in Animal Feed, 1074
Meat
167A
Effect of Sex Class on Nutrient Content of Meat from Young Goat, 296
Meat Characteristics
Growth, Digestive Capability, Carcass, and Meat Characteristics of *Bison bison*, *Bos taurus*, and *Bos* × *Bison*, 1271

Meat Cut-Weight
161A
Meat Goats
Meat Goat Production and Marketing, 291
Meat Production
123A
Meat Quality
β_2-Adrenoceptor Densities Do Not Correlate with Growth, Carcass Quality, or Meat Quality in Cattle, 3281
159A, 165A, 168A, 170A
Effects of Postmortem Aging Time, Animal Age, and Sex on Degradation of Titin and Nebulin in Bovine Longissimus Muscle, 1064
Effects of Restraint and Isolation Stress and Epidural Blockade on Endocrine and Blood Metabolite Status, Muscle Glycogen Metabolism, and Incidence of Dark-Cutting Longissimus Muscle of Sheep, 2295
Influence of Dietary Vitamin E on the Oxidative Stability and Quality of Pig Meat, 3122
Influence of Preslaughter Muscle Temperature on Muscle Metabolism and Meat Quality in Anesthetized Pigs of Different Halothane Genotypes, 96
Meat Yield
The Effects of *In Utero* Exposure of Lambs to a β-Adrenergic Agonist on Prenatal and Postnatal Muscle Growth, Carcass Cutability, and Meat Tenderness, 2986
Mechanistic Model
265A
Medium-Chain Triacylglycerols
Causes of Reduced Survival of Neonatal Pigs by Medium-Chain Triglycerides: Blood Metabolite and Behavioral Activity Approaches, 2019
Megasphaera elsdenii
Preventing In Vitro Lactate Accumulation in Ruminal Fermentations by Inoculation with *Megasphaera elsdenii*, 250
Meiosis
216A
Meishan
Survival, Body Weights, Feed Efficiency, and Carcass Traits of ¾ White Composite and ¼ Duroc, ¼ Meishan, ¼ Fengjing, or ¼ Minzhu Pigs, 3534
Melatonin
281A
Messenger RNA
Messenger Ribonucleic Acid for Gonadotropin-Releasing Hormone Receptor and Numbers of Gonadotropin-Releasing Hormone Receptors in Ovariectomized Ewes after Hypothalamic-Pituitary Disconnection and Treatment with Estradiol, 1784
Metabolic Profile
252A
Metabolism
140A, 196A, 211A, 260A, 261A, 265A, 268A, 284A
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth Factor and Metabolic Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1318
Body Composition and Metabolic Profiles Associated with Puberty in Beef Heifers, 3409
Characteristics of Digestion of Linted and Lint-Free Cottonseed in Diets for Feedlot Cattle, 1246
Differences in Copper Status and Copper Metabolism Among Angus, Simmental, and Charolais Cattle, 571
Differential Effects of Plane of Protein or Energy Nutrition on Visceral Organs and Hormones in Lambs, 1674
Effect of Intravenous Glucose Infusion on Metabolism of Portal-Drained Viscera in Sheep Fed a Cereal/Straw-Based Diet, 2146
Effects of Reducing Particle Size of Corn in Lactation Diets on Energy and Nitrogen Metabolism in Second-Parity Sows, 427
Interaction of Feed Intake Level on Comparative Ruminal and Total Tract Digestion of Dry-Rolled and Steam-Flaked Corn, 1239
Prenatal Androgenization of Lambs: II. Metabolism in Adipose Tissue and Liver, 1701
Regulation of Organic Nutrient Metabolism During Transition from Late Pregnancy to Early Lactation, 2804
Temperature-Dependent Responses of Rats to Ergovaline Derived from Endophyte-Infected Tall Fescue, 1954
Metabolites
146A, 205A, 271A
Cysteamine-Induced Depletion of Somatostatin in Sheep: Time Course of Depletion and Changes in Plasma Metabolites, Insulin, and Growth Hormone, 77
Dietary Protein and(or) Energy Restriction in Mares: Plasma Glucose, Insulin, Nonesterified Fatty Acid, and Urea Nitrogen Responses to Feeding, Glucose, and Epinephrine, 136
Feed Deprivation of Mares: Plasma Metabolite and Hormonal Concentrations and Responses to Exercise, 3696
Prenatal Androgenization of Lambs: I. Alterations of Growth, Carcass Characteristics, and Metabolites in Blood, 1694
Metabolizable Energy
Dietary Effects on Fat Deposition and Fatty Acid Profiles in Muscle and Fat Depots of Friesian Bull Calves, 2712
Methane
276A
Methane Emissions from Cattle, 2483
Methionine
181A, 249A, 269A, 274A
Added Dietary Methionine in Starter Pig Diets Containing Spray-Dried Blood Products, 2647
Effects of Amino Acids Administered to a Perfused Area of the Skin in Angora Goats, 565
Relative Bioavailability of Two Organic and Two Inorganic Zinc Sources Fed to Sheep, 1202
The Effect of Dietary Methionine and Its Relationship to Lysine on Growth Performance of the Segregated Early-Weaned Pig, 3666
Methionine Sulfoxide
274A
Methylhistidine
Comparison Between 3-Methylhistidine Production and Proteinase Activity as Measures of Skeletal Muscle Breakdown in Protein-Deficient Growing Barrows, 2272
Metmyoglobin
Influence of Dietary Vitamin E on the Oxidative Stability and Quality of Pig Meat, 3122
Mexico
237A
Mice
112A, 151A
Differences in Pup Birth Weight, Pup Variability Within Litters, and Dam Weight of Mice Selected for Alternative Criteria to Increase Litter Size, 1948
Effects of Spray-Dried Porcine Plasma Protein on Growth Traits and Nitrogen and Energy Balance in Mice, 2340
Uterine Mass and Uterine Blood Volume in Mice Selected 21 Generations for Alternative Criteria to Increase Litter Size, 2243
Michigan
250A
Microbial Contamination
Studies on the In Situ Nitrogen Degradability Corrected for Bacterial Contamination of Concentrate Feeds in Steers, 220
Microbial Phytase
187A, 188A
Microbial Proteins
Desirable Characteristics of Forage Legumes for Improving Protein Utilization in Ruminants, 2760
Effect of Barley Variety and Dietary Barley Content on Digestive Function in Beef Steers Fed Grass Hay-Based Diets, 3476
Microbial Succession
203A
Microbial Synthesis
263A
Microbiology
Microbiology of Hot-Fat-Trimmed Beef, 1368
Microdialysis
217A
Micro-Nutrients
251A
Microorganisms
156A
Microsatellites
110A
Individual Multilocus Genotypes Using Microsatellite Polymorphisms to Permit the Analysis of the Genetic Variability Within and Between Italian Beef Cattle Breeds, 3259

Rapid Communication: Bovine Dinucleotide Repeat Polymorphisms *ABS010, ABS011, ABS012, ABS013,* and *ABS014, 3189*
Microwaves
126A
Milk
121A, 259A, 283A
Effect of Substitution of Starch for Fiber and Fat in Isoenergetic Diets on Nutrient Digestibility and Reproductive Performance of Rabbits, 1131
Effects of Induced or Delayed Parturition and Supplemental Dietary Fat on Colostrum and Milk Composition in Sows, 1906
Effects of Postweaning Diet on Age and Weight at Puberty and Milk Production of Heifers, 63
Prepartum Nutrition and Solar Radiation in Beef Cattle: II. Residual Effects on Postpartum Milk Yield, Immunoglobulin, and Calf Growth, 1303
Milk Composition
18B
Effects of Feeding a High-Grain Diet at a Restricted Intake on Lactation Performance and Rebreeding of Ewes, 3199
Milk Fat
210A
Milk Fever
1B
Milk Production
111A, 113A, 154A, 238A, 245A, 246A, 248A, 288A
Effects of Dietary Protein Percentage and β-Agonist Administered to Prepubertal Ewes on Mammary Gland Growth and Hormone Secretions, 2655
Increased Postweaning Gain of Beef Heifers Enhances Fertility and Milk Production, 937
Influence of Undegraded Intake Protein Supplementation on Milk Production, Weight Gain, and Reproductive Performance in Postpartum Brahman Cows, 3223
Recombinant Bovine Somatotropin Increases Milk Yield and Calf Gain in Diverse Breeds of Beef Cattle: Associated Changes in Hormones and Indices of Metabolism, 3051
Subclinical Mastitis and Milk Production in Primiparous Simmental Cows, 1552
Tarentaise and Hereford Breed Effects on Cow and Calf Traits and Estimates of Individual Heterosis, 2574
The Effect of Caffeine on Mammary Gland Development and Milk Yield in Primiparous Sows, 534
Milk Products
Effect of Adding Fat and(or) Milk Products to the Weanling Pig Diet on Performance in the Nursery and Subsequent Grow-Finish Stages, 3358
Milk Protein
139A, 274A
Milk Replacer
249A, 276A
Milk Synthesis
36B
Milk Traits
113A
Mills
Effects of Mill Type and Particle Size Uniformity on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 2564
Mimosine
Leucaena Toxicosis and Its Control in Ruminants, 1487
Technical Note: Tissue Residues of Mimosine and 2,3-Dihydroxypyridine After Intravenous Infusion in Goats, 172
Mineral Composition
Effect of Initial Breeding Weight on Macro- and Micromineral Composition over a Three-Parity Period Using a High-Producing Sow Genotype, 151
Mineral Metabolism
Effect of Sulfur Fertilization on Chemical Composition, Ensiling Characteristics, and Utilization by Lambs of Sorghum Silage, 1803
Minerals
151A, 153A, 159A, 186A, 188A, 209A
Effects of Feeding Wash-Water Solids on Health and Performance of Ewes and Lambs, 3552
Free and Total Ion Concentrations in Pig Digesta, 1138
Influence of Incremental Zeranol Implant Doses on the Chemical and Physical Characteristics of Third Metacarpal Bone and Chemical Composition of Liver and Soft Tissue from Feedlot Steers, 1
Mineral and Nitrogen Balance in Lambs Implanted with Zeranol, 3785
Phytase-Induced Changes in Mineral Utilization in Zinc-Supplemented Diets for Pigs, 3384
Miniature Pigs
Growth Patterns in Selected Organs of the Miniature Swine as Determined by Gross Macromolecular Composition, 1340
Minzhu
Survival, Body Weights, Feed Efficiency, and Carcass Traits of ¾ White Composite and ¼ Duroc, ¼ Meishan, ¼ Fengjing, or ¼ Minzhu Pigs, 3534
Miserotoxin
207A
Mitochondrial DNA
Rapid Communication: Nucleotide Sequence of Caprine Mitochondrial Genes for $tRNA^{Lys}$ and two subunits of F_0-ATPase, 3493
Mitosis
Rapid Communication: Cloning and Sequencing of a Pig cdc25 Tyrosine Phosphatase cDNA, 630
Mixing
Energy Metabolism in Young Pigs as Affected by Mixing, 3562
Model Comparison
265A
Model Evaluation
265A
Models
196A
Application of a Computer Model to Predict Optimum Slaughter End Points for Different Biological Types of Feeder Cattle, 2903
Application of the Cornell Net Carbohydrate and Protein Model for Cattle Consuming Forages, 267
Influence of Roughage and Grain Processing in High-Concentrate Diets on the Performance of Long-Fed Holstein Steers, 1888
Mohair
154A, 251A, 252A, 253A
Molasses
200A
Effect of Molasses-Based Liquid Supplements on Digestibility of Creeping Bluestem and Performance of Mature Cows on Winter Range, 853
Effect of Protein Level and Source in Molasses Slurries on the Performance of Growing Cattle Fed Hay During Winter, 3078
Value of Feather Meal in a Molasses-Based Liquid Supplement Fed to Yearling Cattle Consuming a Forage Diet, 2865
Monensin
Effect of Monensin and Monensin and Tylosin Combination on Feed Intake Variation of Feedlot Steers, 39
Monensin and Ammoniation or Urea Supplementation of Bermudagrass Hay Diets for Steers, 1793
Monitor
The Responsibilities of Investigators, Monitors, and Sponsors of Clinical Studies Supporting New Animal Drug Applications, 606
Mortality
212A, 214A
Breed Effects of Foster Lamb and Foster Dam on Lamb Viability and Growth, 1559
Mortality of Domestic Sheep in Free-Ranging Flocks in Southeastern Norway, 1012
The Effect of Ewe Body Condition at Lambing on Colostral Immunoglobulin G Concentration and Lamb Performance, 2860
Mothering Ability
Breed Effects of Foster Lamb and Foster Dam on Lamb Viability and Growth, 1559
Motility
Retention Time of Digesta in the Rumen: Its Repeatability and Relationship with Wool Production of Merino Rams, 206
Multiple Breeds
Effect of Accounting for Different Phenotypic Variances by Sire Breed and Sex on Selection of Sires Based on Expected Progeny Differences for 200- and 365-Day Weights, 2589

Multiple-Sire Breeding Systems
111A
Multiple-Trait Evaluation
117A
Multiple-Trait Genetic Evaluation for One Polychotomous Trait and Several Continuous Traits with Missing Data and Unequal Models, 1609
Multispectral Radiometry
204A
Multistage Selection
Multistage Selection for Maximum Economic Return with an Application to Beef Cattle Breeding, 699
Multivariate Analysis
235A
Genetic Correlation and Heritabilities for Purebred and Crossbred Performance in Poultry Egg Production Traits, 2220
Prediction of Genetic Values of Sires for Growth Traits of Crossbred Cattle Using a Multivariate Animal Model with Heterogeneous Variances, 2940
Muscle Biopsy
170A
Muscle Depth
Pork Carcass Evaluation with an Automated and Computerized Ultrasonic System, 29
Muscle Exercise
Effects of Preslaughter Muscle Exercise on Muscle Metabolism and Meat Quality Studied in Anesthetized Pigs of Different Halothane Genotypes, 108
Muscle Fibers
Effects of Growth Hormone and Ovariectomy on Performance, Serum Hormones, Insulin-Like Growth Factor-Binding Proteins, and Muscle Fiber Properties of Prepubertal Friesian Heifers, 3574
Effects of Porcine Somatotropin Administration on Porcine Muscles Located Within Different Regions of the Body, 2282
Muscle Hypertrophy
A Muscle Hypertrophy Condition in Lamb (Callipyge): Characterization of Effects on Muscle Growth and Meat Quality Traits, 3596
Muscle Metabolism
162A
Muscle Metabolites
Effects of Preslaughter Muscle Exercise on Muscle Metabolism and Meat Quality Studied in Anesthetized Pigs of Different Halothane Genotypes, 108
Influence of Preslaughter Muscle Temperature on Muscle Metabolism and Meat Quality in Anesthetized Pigs of Different Halothane Genotypes, 96
Muscles
143A, 144A, 149A
Regulation of Muscle Cell Proliferation by Extracts from Crushed Muscle, 1972
Relationship Between Shear Force and Trained Sensory Panel Tenderness Ratings of 10 Major Muscles from *Bos indicus* and *Bos taurus* Cattle, 3333
The Role of Insulin-Like Growth Factor I in Clenbuterol-Stimulated Growth in Growing Lambs, 3069
Muscle Temperature
Influence of Preslaughter Muscle Temperature on Muscle Metabolism and Meat Quality in Anesthetized Pigs of Different Halothane Genotypes, 96
Muscling
Pork Characteristics as Affected by Two Populations of Swine and Six Crude Protein Levels, 3621
Mycosin
Immunohistochemical Microquantification of Fast-Myosin in Frozen Histological Sections of Mammalian Skeletal Muscles, 88
Mycotoxins
208A
Acute Hepatic and Renal Toxicity in Lambs Dosed with Fumonisin-Containing Culture Material, 508
Endogenous Toxins and Mycotoxins in Forage Grasses and Their Effects on Livestock, 909
The Involvement of Slaframine and Swainsonine in Slobbers Syndrome: A Review, 1499
Myofiber Nuclei
148A
Myofiber Type
Immunohistochemical Microquantification of Fast-Myosin in Frozen Histological Sections of Mammalian Skeletal Muscles, 88
Myofibril Fragmentation Index
Is Z-Disk Degradation Responsible for Postmortem Tenderization?, 1351
Myofibrillar Protein
139A
Myofibrils
Effects of Postmortem Aging Time, Animal Age, and Sex on Degradation of Titin and Nebulin in Bovine Longissimus Muscle, 1064
Myogenesis
142A
In-Vivo Analysis of Serum-Borne Growth Factors in Developing Co-Twinned Fetuses, 1689
Myosin
148A
Immunohistochemical Microquantification of Fast-Myosin in Frozen Histological Sections of Mammalian Skeletal Muscles, 88
Myosin Heavy Chain
144A

N

n-Butyrate
Dose Response of Plasma Insulin and Glucagon to Intravenous *n*-Butyrate Infusion in Sheep, 3038
Naloxone
227A
Influence of Forage Level and Naloxone Injection on Feed Intake, Digestion, and Plasma Hormone and Metabolite Concentrations in Dairy Heifers, 2677
Na^+,K^+-ATPase
In Vitro Ouabain-Sensitive Respiration and Protein Synthesis in Rumen Epithelial Papillae of Hereford Steers Fed Either Timothy Hay or Timothy Hay Supplemented with Cracked Corn Once Daily, 3775
Native Sheep
124A
N_2 Lines
Is Z-Disk Degradation Responsible for Postmortem Tenderization?, 1351
Natural Abundance
Fractionation of Nitrogen Isotopes by Mixed Ruminal Bacteria, 257
Natural Killer Cells
131A
Natural Resources
135A
Near Infrared
190A
Nebulin
Rapid Communication: An *Eco*RI Polymorphism at the Porcine *Nebulin* (*Neb*) Locus, 920
Neonatal
214A
Neonatal Diet Cholesterol
136A
Neonatal Growth
139A, 143A
36B
Net Energy
201A
Neural Network
204A
Neuropeptide Y
Serum Concentrations of Luteinizing Hormone, Growth Hormone, and Prolactin in Untreated and Estradiol-Treated Ovariectomized Ewes After Immunoneutralization of Hypothalamic Neuropeptide Y, 2105

Neutral Detergent Fiber
Dietary Level and Source of Neutral Detergent Fiber and Ileal Endogenous Nitrogen Flow in Pigs, 441
Neutral Detergent Fraction
Measurement and Kinetic Analysis of the Neutral Detergent-Soluble Carbohydrate Fraction of Legumes and Grasses, 3455
Neutrophil Chemotaxis
266A
Neutrophil-Lymphocyte Ratio
269A
Neutrophils
1B
Effect of Copper Depletion and Repletion on Lymphocyte Blastogenesis and Neutrophil Bactericidal Function in Beef Heifers, 2079
New Animal Drug Application
The Responsibilities of Investigators, Monitors, and Sponsors of Clinical Studies Supporting New Animal Drug Applications, 606
NIRS
252A
Nitrate
199A
Nitrient Uptake
Net Nutrient Flux by Visceral Tissues of Beef Steers Given Abomasal and Ruminal Infusions of Casein and Starch, 236
Nitrogen
191A, 257A, 278A
Diet Quality and Ruminal Digestion in Beef Cattle Grazing Midgrass Prairie Rangeland or Plains Bluestem Pasture Throughout the Summer, 1174
Effect of Feeding Reduced Protein, Amino Acid-Supplemented Diets on Nitrogen and Energy Balance in Grower Pigs, 3000
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: I. Digestion of Nitrogen and Amino Acids, 824
Effect of Sulfur Fertilization on Chemical Composition, Ensiling Characteristics, and Utilization by Lambs of Sorghum Silage, 1803
Nutrient Digestibility and Growth Performance of Pigs Fed Pearl Millet as a Replacement for Corn, 2026
Nitrogen Balance
182A, 205A, 271A, 277A
Nitrogen Deposition
137A, 181A
Nitrogen Fractions
201A
Nitrogen Isotopes
Fractionation of Nitrogen Isotopes by Mixed Ruminal Bacteria, 257
Nitrogen Metabolism
138A, 140A, 267A
Nitropropanol
207A
NLIN
263A
Non-Esterified Fatty Acids
Dietary and Plasma Branched-Chain Amino Acids in Relation to Tryptophan: Effect on Voluntary Feed Intake and Lactation Metabolism in the Primiparous Sow, 1086
Nongenetic Effects
Divergent Selection for Blood Serum Insulin-Like Growth Factor I Concentration in Beef Cattle: I. Nongenetic Effects, 1927
Nonlinear Regression
111A
Nonruminant
In Vitro Fermentation of Cellulose, Beet Pulp, Citrus Pulp, and Citrus Pectin Using Fecal Inoculum from Cats, Dogs, Horses, Humans, and Pigs and Ruminal Fluid from Cattle, 3639
Norepinephrine
Adrenal Responses of Angus × Hereford Cattle to the Stress of Weaning, 2669
Norgestomet
Effect of Norgestomet Treatment After Insemination on the Calving Rate of Postpartum Suckled Beef Cows, 3230
Normal Singles
167A
Normal Twins
167A
Nubian
155A
Nuclear Magnetic Resonance
162A
Nuclear Vacuoles
224A
Nucleotide Sequences
Rapid Communication: Cloning and Sequencing of a Pig cdc25 Tyrosine Phosphatase cDNA, 630
Nurse Sows
139A
Nutrient Budget
273A
Nutrient Composition
284A
Nutrient Intake
Dietary Protein and(or) Energy Restriction in Mares: Plasma Growth Hormone, IGF-I, Prolactin, Cortisol, and Thyroid Hormone Responses to Feeding, Glucose, and Epinephrine, 1424
Nutrients
Effect of Sex Class on Nutrient Content of Meat from Young Goat, 296
The Effect of Copper Level on Nutrient Utilization of Weanling Pigs, 166
Nutrient Uptake
Net Nutrient Flux by Visceral Tissues of Beef Steers Given Abomasal and Ruminal Infusions of Casein and Starch, 236
Nutrient Variation
203A
Nutrition
138A, 168A, 183A, 184A, 230A, 233A, 249A, 256A, 273A, 290A
Application of the Cornell Net Carbohydrate and Protein Model for Cattle Consuming Forages, 267
Body Composition and Metabolic Profiles Associated with Puberty in Beef Heifers, 3409
Effects of Calcium Soaps of Fatty Acids on Postpartum Reproductive Activity in Beef Cows and Growth of Calves, 2888
Effects of Growth Rate on Carcass Composition and Lipid Partitioning at Puberty and Growth Hormone, Insulin-Like Growth Factor I, Insulin, and Metabolites Before Puberty in Beef Heifers, 2390
Prepartum Nutrition and Solar Radiation in Beef Cattle: I. Relationships of Body Fluid Compartments, Packed Cell Volume, Plasma Urea Nitrogen, and Estrogens to Prenatal Development, 1289
Prepartum Nutrition and Solar Radiation in Beef Cattle: II. Residual Effects on Postpartum Milk Yield, Immunoglobulin, and Calf Growth, 1303
Reproductive Responses and Calf Birth and Weaning Weights as Affected by Body Condition at Parturition and Postpartum Weight Gain in Primiparous Beef Cows, 1251
Skeletal Growth Rates of Weanling and Yearling Thoroughbred Horses, 2513
Technical Note: Assessing the Consistency of Measurement Procedures in Animal Energetics and Nutrition, 1208
Nutritive Value
155A, 196A
A Biotechnological Approach to Improving the Nutritive Value of Alfalfa, 2752
Nylon Bag
Studies on the In Situ Nitrogen Degradability Corrected for Bacterial Contamination of Concentrate Feeds in Steers, 220

O

Oak
134A
Oat-Vetch
201A
Obesity
110A, 136A
OCD
184A
Odor
248A
Omasum
269A

Absorption of L-Carnosine, L-Methionine, and L-Methionylglycine by Isolated Sheep Ruminal and Omasal Epithelial Tissue, 3464
Omega-3 Fatty Acids
164A
Oocyte
221A
Optimization
Application of a Computer Model to Predict Optimum Slaughter End Points for Different Biological Types of Feeder Cattle, 2903
Orchardgrass
203A
Organocopper Compound
Evaluation of Copper Sulfate and a Copper Lysine Complex as Growth Promoters for Weanling Swine, 2640
Organs
The Effects of Dietary Protein Concentration on Compensatory Growth in Barrows and Gilts, 3376
Ova
211A
Ovarian Follicles
231A, 233A
Ovarian Hormones
227A
Ovarian-Intact Ewes
226A
Ovariectomized Females
Effects of Growth Hormone and Ovariectomy on Performance, Serum Hormones, Insulin-Like Growth Factor-Binding Proteins, and Muscle Fiber Properties of Prepubertal Friesian Heifers, 3574
Ovaries
218A, 231A, 234A
Rapid Communication: Cloning and Sequencing of a Pig cdc25 Tyrosine Phosphatase cDNA, 630
Serum Hormones, Follicular Fluid Steroids, Insulin-Like Growth Factors and Their Binding Proteins, and Ovarian IGF mRNA in Sheep with Different Ovulation Rates, 1152
Ovine
168A
Ovine Corpus Leutum
217A
Ovulation
223A, 226A
Synchronization of Ovarian Follicular Waves with a Gonadotropin-Releasing Hormone Agonist to Increase the Precision of Estrus in Cattle: A Review, 3141
Ovulation Rate
110A, 211A
Reproduction of F_1 Meishan, Fengjing, Minzhu, and Duroc Gilts and Sows, 711
Serum Hormones, Follicular Fluid Steroids, Insulin-Like Growth Factors and Their Binding Proteins, and Ovarian IGF mRNA in Sheep with Different Ovulation Rates, 1152
Oxidation
160A
A Review of Dietary Vitamin E Supplementation for Improvement of Beef Quality, 3131
Lysine Oxidation by Growing Pigs Receiving Diets Containing Free and Protein-Bound Lysine, 785
Oxygen
195A, 229A
Oxytocin
212A, 216A, 217A
Effect of Pregnancy-Specific Protein B on Luteal Cell Progesterone, Prostaglandin, and Oxytocin Production During Two Stages of the Bovine Estrous Cycle, 2662
Exogenous Oxytocin Decreases Interestrous Interval of Cyclic Gilts, 3681

P

Palatability
156A, 157A, 158A, 165A, 168A
Feedlot Performance, Carcass Traits, and Palatability Traits of Hereford and Hereford × Brahman Steers, 3613
Palmitelaidic acid
210A
Pancreas
Sorghum Amino Acid-Supplemented Diets for the 50- to 100-Kilogram Pig, 1746
The Effects of Ruminal Acidosis on Volatile Fatty Acid Absorption and Plasma Activities of Pancreatic Enzymes in Lambs, 3111
The Pattern of the Circadian Rhythm of Pancreatic Secretion in Fed Pigs, 3402
Panicum maximum
Urea Ammoniation Effects on the Feeding Value of Guineagrass (*Panicum maximum*) Hay, 3085
Panicum virgatum
Ruminal Degradation of Switchgrass, Big Bluestem, and Smooth Bromegrass Leaf Proteins, 598
Paradigms
Changing Paradigms in Animal Agriculture: Addressing Animal Issues in Washington by a Professional Society, 3178
Changing Paradigms in Animal Agriculture: The Role of Academia and Industry in Technology Transfer, 3173
Parasites
129A
Parasitism
150A
Parasympathomimetics
Endocrine and Metabolic Response to Muscarinic Stimulation and Inhibition in the Ruminant: Effects of Slaframine, 3673
The Effect of Slaframine on Salivary Output and Subacute and Acute Acidosis in Growing Beef Steers, 516
Parity
Estimation of Genetic Parameters for Litter Size in Canadian Yorkshire and Landrace Swine with Each Parity of Farrowing Treated as a Different Trait, 2959
Particle Size
179A
Effects of Mill Type and Particle Size Uniformity on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 2564
Effects of Particle Size and Pelleting on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 757
Effects of Reducing Particle Size of Corn in Lactation Diets on Energy and Nitrogen Metabolism in Second-Parity Sows, 427
Reducing Particle Size of Corn in Lactation Diets from 1,200 to 400 Micrometers Improves Sow and Litter Performance, 421
Parturition
222A
Effects of Induced or Delayed Parturition and Supplemental Dietary Fat on Colostrum and Milk Composition in Sows, 1906
Feeding Behavior and Management Factors During the Transition Period in Dairy Cattle, 2791
Impact of Changes in Organic Nutrient Metabolism on Feeding the Transition Dairy Cow, 2820
Mifepristone (RU 486) Induces Parturition in Primiparous Beef Heifers and Reduces Incidence of Dystocia, 3421
Passage Rate
Retention Time of Digesta in the Rumen: Its Repeatability and Relationship with Wool Production of Merino Rams, 206
Passive Immunization
214A
Pasture
236A, 261A
Protein and Energy Utilization by Ruminants at Pasture, 278
Pasteurella multocida
Effects of Atrophic Rhinitis Induced by *Pasteurella multocida* Toxin on Heat Production and Activity of Pigs Kept Under Different Climatic Conditions, 1658
Path Analysis
250A
Pathogens
The Real Story About Food Safety, 2741
PCR
114A
Rapid Communication: Bovine Dinucleotide Repeat Polymorphisms *ABS010, ABS011, ABS012, ABS013,* and *ABS014, 3189*

Rapid Communication: Polymorphism in a Bovine Heart-Fatty Acid Binding Protein-Like (H-FABPL) DNA Sequence, 919
Sex Identification in Mammals with Polymerase Chain Reaction and Its Use to Examine Sex Effects on Diameter of Day-10 or -11 Pig Embryos, 1408
PCR-RFLP
Rapid Communication: Restriction Fragment Length Polymorphism in Amplification Products of the Bovine *Growth Hormone-Releasing Hormone* Gene, 3789
Pearl Millet
173A
Nutrient Digestibility and Growth Performance of Pigs Fed Pearl Millet as a Replacement for Corn, 2026
Pectoralis
156A
Pedigree
Influences of Amount of Pedigree Information on Computing Time and of Model Assumptions on Restricted Maximum-Likelihood Estimates of Population Parameters in Swiss Black-Brown Mountain Sheep, 2213
Pedigree Index
224A
Pellets
185A
Effects of Mill Type and Particle Size Uniformity on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 2564
Effects of Particle Size and Pelleting on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 757
Pelts
Collagen Characteristics of Skin, Fell, and Epimysium from Rams, Wethers, and Zeranol-Implanted Ram Lambs, 393
Pelvic Measurements
239A, 240A
Pèptide
269A
Absorption of L-Carnosine, L-Methionine, and L-Methionylglycine by Isolated Sheep Ruminal and Omasal Epithelial Tissue, 3464
Perceptions
243A
Performance
149A, 176A, 179A, 186A, 194A, 246A, 249A, 260A, 285A, 286A
Effect of Adding Fat and(or) Milk Products to the Weanling Pig Diet on Performance in the Nursery and Subsequent Grow-Finish Stages, 3358
Effect of Level and Type of Fat on Subacute Acidosis in Cattle Fed Dry-Rolled Corn Finishing Diets, 2438
Effect of Prenatal Androgenization on Performance, Lactation, Carcass, and Sensory Traits of Heifers in a Single-Calf Heifer System, 986
Effects of Feeding Wash-Water Solids on Health and Performance of Ewes and Lambs, 3552
Effects of Feed Intake and Dietary Level of Wet Corn Gluten Feed on Feedlot Performance, Digestibility of Nutrients, and Carcass Characteristics of Growing-Finishing Beef Heifers, 3246
Effects of Protein Concentration and Protein Source on Performance of Newly Arrived Feedlot Steers, 1585
Feeding Wet Corn Gluten Feed to Reduce Subacute Acidosis in Cattle, 2931
Feedlot Performance and Carcass Characteristics of Holstein Steers as Affected by Source of Dietary Protein and Level of Ruminally Protected Lysine and Methionine, 3503
Influence of Grain Type, Tallow Level, and Tallow Feeding System on Feedlot Cattle Performance, 2916
Performance and Nutrient Digestibility in Weanling Pigs as Influenced by Yeast Culture Additions to Starter Diets Containing Dried Whey or One of Two Fiber Sources, 1381
Plasma Protein for Pigs Weaned at 19 to 24 Days of Age: Effect on Performance and Plasma Insulin-Like Growth Factor I, Growth Hormone, Insulin, and Glucose Concentrations, 3657
The Impact of Environment and Antimicrobial Agents on the Growth Response of Early-Weaned Pigs to Spray-Dried Porcine Plasma, 2532
Performance Testing
Estimation of Genetic Parameters for Growth, Feed Consumption, and Conformation Traits for Double-Muscled Belgian Blue Bulls Performance-Tested in Belgium, 3269
Perfusion
Effects of Amino Acids Administered to a Perfused Area of the Skin in Angora Goats, 565
Perifusion
216A
Perinatal Mortality
Reducing Pig Mortality Through Supervision During the Perinatal Period, 3543
Peroxidase
193A
Persistence
Acremonium in Fescue and Ryegrass: Boon or Bane? A Review, 881
PGE_2
229A
$PGF_{2\alpha}$
217A, 229A, 232A, 233A
PH
167A, 266A
Phenolic Acids
204A
Effects of Glycine and Bovine Serum Albumin on Inhibition of Propionate Metabolism in Ovine Hepatocytes Caused by Reduced Phenolic Monomers, 3009
Phenolic Amines
228A
Phenolics
Portal and Hepatic Fluxes in Sheep and Concentrations in Cattle Ruminal Fluid of 3-(4-Hydroxyphenyl)propionic, Benzoic, 3-Phenylpropionic, and *trans*-Cinnamic Acids, 1766
Phenotypes
Estimation of Genetic Parameters for Growth, Feed Consumption, and Conformation Traits for Double-Muscled Belgian Blue Bulls Performance-Tested in Belgium, 3269
Phenotypic Correlations
Genetic and Phenotypic (Co)Variances for Growth and Carcass Traits of Purebred and Composite Populations of Beef Cattle, 1920
Genetic and Phenotypic (Co)Variances for Production Traits of Female Populations of Purebred and Composite Beef Cattle, 2235
Genetic and Phenotypic (Co)Variances for Production Traits of Intact Male Populations of Purebred and Composite Beef Cattle, 2227
Phenotypic Variation
246A
Phlorizin
Adaptation to Small Intestinal Starch Assimilation and Glucose Transport in Ruminants, 1828
Phosphorus
174A, 187A, 188A
Efficacy of a Recombinant-Derived Phytase in Improving the Bioavailability of Phosphorus in Corn-Soybean Meal Diets for Pigs, 2000
Efficacy of Low-Activity, Microbial Phytase in Improving the Bioavailability of Phosphorus in Corn- Soybean Meal Diets for Pigs, 449
Phosphorylation
223A
Photoperiod
245A
Physical Activity
Alteration of Heat Production in Young Calves in Relation to Posture, 2254
Effects of Atrophic Rhinitis Induced by *Pasteurella multocida* Toxin on Heat Production and Activity of Pigs Kept Under Different Climatic Conditions, 1658
Physical Fill
196A
Phytase
173A, 174A, 187A, 188A
Efficacy of a Recombinant-Derived Phytase in Improving the

Bioavailability of Phosphorus in Corn-Soybean Meal Diets for Pigs, 2000
Efficacy of Low-Activity, Microbial Phytase in Improving the Bioavailability of Phosphorus in Corn- Soybean Meal Diets for Pigs, 449
Phytase-Induced Changes in Mineral Utilization in Zinc-Supplemented Diets for Pigs, 3384
Phytoestrogens
Detection of the Effects of Phytoestrogens on Sheep and Cattle, 1509
Piglet Mortality
131A
Piglets
130A
Effects of Atrophic Rhinitis Induced by *Pasteurella multocida* Toxin on Heat Production and Activity of Pigs Kept Under Different Climatic Conditions, 1658
Pigments
Accumulation of the β-Agonist Clenbuterol by Pigmented Tissues in Rat Eye and Hair of Veal Calves, 2050
Pigs
109A, 113A, 114A, 117A, 126A, 127A, 128A, 131A, 132A, 136A, 137A, 141A, 142A, 143A, 144A, 145A, 146A, 147A, 150A, 151A, 162A, 170A, 171A, 172A, 173A, 174A, 175A, 177A, 178A, 179A, 180A, 181A, 182A, 183A, 185A, 186A, 187A, 188A, 189A, 190A, 191A, 193A, 194A, 195A, 211A, 213A, 214A, 218A, 246A, 247A, 250A, 251A
Acute Shifts in Relaxin, Progesterone, Prolactin, and Growth Hormone Secretion in Chinese Meishan Gilts During Late Pregnancy and After Hysterectomy, 3732
Added Dietary Methionine in Starter Pig Diets Containing Spray-Dried Blood Products, 2647
Administration of Porcine Somatotropin by Daily Injection: Growth and Endocrine Responses in Genetically Lean and Obese Barrows and Gilts, 3294
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth, Carcass, and Sensory Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1327
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth Factor and Metabolic Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1318
Alternative Pork Carcass Evaluation Techniques: I. Differences in Predictions of Value, 637
Alternative Pork Carcass Evaluation Techniques: II. Statistical Analysis of Error Attributable to Sex, Genotype, and Weight, 645
Association of PIT1 Polymorphisms with Growth and Carcass Traits in Pigs, 1282
A Technique for the Venous Cannulation of the Mammary Gland in the Lactating Sow, 1390
β-Adrenergic Receptor Subtype Transcripts in Porcine Adipose Tissue, 1962
Bioavailability of Various Vitamin E Compounds for Finishing Swine, 490
Blood Urea and Amino Acid Concentrations in Pigs of Two Breed Combinations as Affected by Energy Intakes, 145
Body Composition of Gilts at Puberty, 2524
Causes of Reduced Survival of Neonatal Pigs by Medium-Chain Triglycerides: Blood Metabolite and Behavioral Activity Approaches, 2019
Changes in Plasma Urea Concentration Can Be Used to Determine Protein Requirements of Two Populations of Pigs with Different Protein Accretion Rates, 2631
Comparison Between 3-Methylhistidine Production and Proteinase Activity as Measures of Skeletal Muscle Breakdown in Protein-Deficient Growing Barrows, 2272
Determination of Apparent Ileal Amino Acid Digestibility in Barley and Canola Meal for Pigs with the Direct, Difference, and Regression Methods, 2364
Dietary Chromium Picolinate Additions Improve Gain:Feed and Carcass Characteristics in Growing-Finishing Pigs and Increase Litter Size in Reproducing Sows, 457
Dietary Level and Source of Neutral Detergent Fiber and Ileal Endogenous Nitrogen Flow in Pigs, 441
Dust Suppression in Swine Feed Using Soybean Oil, 981
Effect of Adding Fat and(or) Milk Products to the Weanling Pig Diet on Performance in the Nursery and Subsequent Grow-Finish Stages, 3358
Effect of Chromium Picolinate on Growth, Body Composition, and Tissue Accretion in Pigs, 2033
Effect of Chromium Tripicolinate on Growth, Glucose Tolerance, Insulin Sensitivity, Plasma Metabolites, and Growth Hormone in Pigs, 1123
Effect of Divergent Selection for Postweaning Average Daily Gain on Front-End Soundness of Market-Weight Pigs, 1940
Effect of Feeding Reduced Protein, Amino Acid-Supplemented Diets on Nitrogen and Energy Balance in Grower Pigs, 3000
Effect of Initial Breeding Weight on Macro- and Micromineral Composition over a Three-Parity Period Using a High-Producing Sow Genotype, 151
Effect of Supplemental Yeast Culture in Sow Gestation and Lactation Diets on Apparent Nutrient Digestibilities and Reproductive Performance Through One Reproductive Cycle, 1741
Effect of Weaning Diet on the Ecology of Adherent Lactobacilli in the Gastrointestinal Tract of the Pig, 2347
Effect on Performance and Carcass Characteristics of Nursery to Finisher Pigs Fed Reduced Crude Protein, Amino Acid-Supplemented Diets, 433
Effects of Dietary Buffers on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 414
Effects of Dietary Chromium Picolinate Supplementation on Growth, Carcass Characteristics, and Accretion Rates of Carcass Tissues in Growing-Finishing Swine, 3351
Effects of Excess Dietary Leucine and Leucine Catabolites on Growth and Immune Responses in Weanling Pigs, 159
Effects of Hulls of Faba Beans (*Vicia faba* L.) with a Low or High Content of Condensed Tannins on the Apparent Ileal and Fecal Digestibility of Nutrients and the Excretion of Endogenous Protein in Ileal Digesta and Feces of Pigs, 118
Effects of Mill Type and Particle Size Uniformity on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 2564
Effects of Particle Size and Pelleting on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 757
Effects of Porcine Somatotropin Administration on Porcine Muscles Located Within Different Regions of the Body, 2282
Effects of Recombinant Porcine Somatotropin on Placental Size, Fetal Growth, and IGF-I and IGF-II Concentrations in Pigs, 2980
Efficacy of a Recombinant-Derived Phytase in Improving the Bioavailability of Phosphorus in Corn-Soybean Meal Diets for Pigs, 2000
Efficacy of Low-Activity, Microbial Phytase in Improving the Bioavailability of Phosphorus in Corn-Soybean Meal Diets for Pigs, 449
Energy Metabolism in Young Pigs as Affected by Mixing, 3562
Estimates of Zinc and Iron Bioavailability in Pork Liver and the Effect of Sex of Pig on the Bioavailability of Copper in Pork Liver Fed to Male and Female Chicks, 793
Estimation by Regression Analysis of Endogenous Amino Acid Levels in Digesta Collected from the Distal Ileum of Pigs, 2319
Estimation of Genetic Parameters for Litter Size in Canadian Yorkshire and Landrace Swine with Each Parity of Farrowing Treated as a Different Trait, 2959
Evaluation of Copper Sulfate and a Copper Lysine Complex as Growth Promoters for Weanling Swine, 2640
Evaluation of Response to Hormonal Therapy in Prepubertal Gilts of Different Genetic Lines, 3062
Exogenous Oxytocin Decreases Interestrous Interval of Cyclic Gilts, 3681
Follicular Atresia in Pigs: Measurement and Physiology, 2834
Free and Total Ion Concentrations in Pig Digesta, 1138
Glucocorticoid Receptor Binding in Porcine Preadipocytes During Development, 722
Glucose and Free Fatty Acid Modulation of Growth Hormone and Luteinizing Hormone Secretion by Cultured Porcine Pituitary Cells, 1416
Growth of Testes and Testicular Morphology After Eight Generations of Selection for Increased Predicted Weight of Testes at 150 Days of Age in Boars, 2186
Ideal Digestible Lysine Level for Early- and Late-Finishing

Swine, 773
Influence of Dietary β-Glucan on Growth Performance, Nonspecific Immunity, and Resistance to *Streptococcus suis* Infection in Weanling Pigs, 3341
Influence of Preslaughter Muscle Temperature on Muscle Metabolism and Meat Quality in Anesthetized Pigs of Different Halothane Genotypes, 96
Interaction of Diet Composition and a Reduced Nocturnal Temperature Regimen in Weanling Pigs, 2518
Interactive Effects of Feed Intake and Stage of Growth on the Lysine Requirement of Pigs, 3369
Lysine Oxidation by Growing Pigs Receiving Diets Containing Free and Protein-Bound Lysine, 785
Maternal and Fetal Blood Levels of Glucose, Lactate, Fructose, and Insulin in the Conscious Pig, 2994
Nutrient Digestibility and Growth Performance of Pigs Fed Pearl Millet as a Replacement for Corn, 2026
Optimum Ratio to Lysine of Threonine, Tryptophan, and Sulfur Amino Acids for Finishing Swine, 482
Performance and Nutrient Digestibility in Weanling Pigs as Influenced by Yeast Culture Additions to Starter Diets Containing Dried Whey or One of Two Fiber Sources, 1381
Phytase-Induced Changes in Mineral Utilization in Zinc-Supplemented Diets for Pigs, 3384
Plasma Growth Hormone, Insulin-Like Growth Factor I, and Insulin-Like Growth Factor Binding Proteins in Pigs with Divergent Genetic Merit for Postweaning Average Daily Gain, 1776
Plasma Protein for Pigs Weaned at 19 to 27 Days of Age: Effect on Performance and Plasma Insulin-Like Growth Factor I, Growth Hormone, Insulin, and Glucose Concentrations, 3657
Prediction of Tissular Body Composition from Protein and Lipid Deposition in Growing Pigs, 1567
Protein and Lipid Accretion in Body Components of Growing Gilts (20 to 45 Kilograms) as Affected by Energy Intake, 2355
Rapid Communication: *Taq*I Restriction Fragment Length Polymorphism at the Porcine *Bone Morphogenetic Protein 6* (*BMP6*) Locus, 312
Rapid Communication: Cloning and Sequencing of a Pig cdc25 Tyrosine Phosphatase cDNA, 630
Rapid Communication: *Stu*I Restriction Fragment Length Polymorphism at the Porcine *Bone Morphogenetic Protein 5* (*BMP5*) Locus, 311
Relationship of Rate of Lean Tissue Growth and Other Factors to Concentration of Urea in Plasma of Pigs, 3649
Relationships of Serum Insulin-Like Growth Factor I Concentrations to Growth, Composition, and Reproductive Traits of Swine, 3241
Reproduction of F_1 Meishan, Fengjing, Minzhu, and Duroc Gilts and Sows, 711
Response to Dietary Fat and Cholesterol in Young Adult Boars Genetically Selected for High or Low Plasma Cholesterol, 2043
Role of Dietary Lipids on Fetal Tissue Fatty Acid Composition and Fetal Survival in Swine at 42 Days of Gestation, 1372
Sex Identification in Mammals with Polymerase Chain Reaction and Its Use to Examine Sex Effects on Diameter of Day-10 or -11 Pig Embryos, 1408
Sorghum Amino Acid-Supplemented Diets for the 50- to 100-Kilogram Pig, 1746
The Effect of Breeding Facility and Sexual Stimulation on Plasma Cortisol in Boars, 3705
The Effect of Copper Level on Nutrient Utilization of Weanling Pigs, 166
The Effect of Dietary Lysine on Growth, Carcass Composition, and Lipid Metabolism in High-Lean Growth Gilts Fed from 72 to 136 Kilograms, 3392
The Effect of Dietary Methionine and Its Relationship to Lysine on Growth Performance of the Segregated Early-Weaned Pig, 3666
The Effect of Excessive Dietary Vitamin A on Performance and Vitamin E Status in Swine Fed Diets Varying in Dietary Vitamin E, 1093
The Effects of Dietary Protein Concentration on Compensatory Growth in Barrows and Gilts, 3376
The Impact of Environment and Antimicrobial Agents on the Growth Response of Early-Weaned Pigs to Spray-Dried Porcine Plasma, 2532
The Onset of Maternal Diabetes in Swine Induces Alterations in the Development of the Fetal Preadipocyte, 69
The Pattern of the Circadian Rhythm of Pancreatic Secretion in Fed Pigs, 3402
The Selection of Protein Intake by Pigs Treated with Porcine Somatotropin, 764
The Specific-Stress-Free Housing System Has Positive Effects on Productivity, Health, and Welfare of Pigs, 1544
True Digestibility of Amino Acids and Protein in Pigs with ^{13}C as a Label to Determine Endogenous Amino Acid Excretion, 1077
Use of Plasma Urea Nitrogen as a Rapid Response Criterion to Determine the Lysine Requirement of Pigs, 472
Valine Requirement of the Finishing Pig, 2315
Vocalization and Physiological Response of Pigs During Castration With or Without a Local Anesthetic, 381

Pima
Characteristics of Digestion of Linted and Lint-Free Cottonseed in Diets for Feedlot Cattle, 1246

Pine Needles
Abortifacient Response and Plasma Vasoconstrictive Activity After Feeding Needles from Ponderosa Pine Trees to Cattle and Sheep, 2102
Endocrine Responses in Cows Fed Ponderosa Pine Needles and the Effects of Stress, Corpus Luteum Regression, Progestin, and Ketoprofen, 198

Pinus ponderosa
Abortifacient Response and Plasma Vasoconstrictive Activity After Feeding Needles from Ponderosa Pine Trees to Cattle and Sheep, 2102
Endocrine Responses in Cows Fed Ponderosa Pine Needles and the Effects of Stress, Corpus Luteum Regression, Progestin, and Ketoprofen, 198

PITs
Association of PIT1 Polymorphisms with Growth and Carcass Traits in Pigs, 1282

Pituitary
147A, 218A
Glucose and Free Fatty Acid Modulation of Growth Hormone and Luteinizing Hormone Secretion by Cultured Porcine Pituitary Cells, 1416

Placenta
229A
Placental-Fetal Hormonal Interactions: Impact on Fetal Growth, 1861
Utero-Placental Vascular Development and Placental Function, 1839

Placental Hormones
Placental-Fetal Hormonal Interactions: Impact on Fetal Growth, 1861

Plane of Nutrition
Differential Effects of Plane of Protein or Energy Nutrition on Visceral Organs and Hormones in Lambs, 1674

Plasma
171A, 266A
Butylsoyamide Protects Soybean Oil from Ruminal Biohydrogenation: Effects of Butylsoyamide on Plasma Fatty Acids and Nutrient Digestion in Sheep, 818

Plasma Alkaline
136A

Plasma Calcium
188A

Plasma Cholesterol
136A

Plasma Phosphate
188A

Plasma Protein
171A, 189A

Plasma Urea Nitrogen
257A
Blood Urea and Amino Acid Concentrations in Pigs of Two Breed Combinations as Affected by Energy Intakes, 145
Changes in Plasma Urea Concentration Can Be Used to Determine Protein Requirements of Two Populations of Pigs with Different Protein Accretion Rates, 2631
Interactive Effects of Feed Intake and Stage of Growth on the Lysine Requirement of Pigs, 3369

Relationship of Rate of Lean Tissue Growth and Other Factors to Concentration of Urea in Plasma of Pigs, 3649
PMSG
226A
Point-Guard™
134A
Poisonous Plants
Leucaena Toxicosis and Its Control in Ruminants, 1487
Toxic Endophyte-Infected Tall Fescue and Range Grasses: Historic Perspectives, 861
Poisson Distribution
The Poisson Process as a Model for Compartment Digesta Flow in Ruminants, 177
Pollution
Effects of Reducing Particle Size of Corn in Lactation Diets on Energy and Nitrogen Metabolism in Second-Parity Sows, 427
Polyamines
Toxicity and Growth-Promoting Potential of Spermine When Fed to Chicks, 2375
Polychotomous Trait
Multiple-Trait Genetic Evaluation for One Polychotomous Trait and Several Continuous Traits with Missing Data and Unequal Models, 1609
Polyenoic Fatty Acids
Role of Dietary Lipids on Fetal Tissue Fatty Acid Composition and Fetal Survival in Swine at 42 Days of Gestation, 1372
Polymorphisms
Individual Multilocus Genotypes Using Microsatellite Polymorphisms to Permit the Analysis of the Genetic Variability Within and Between Italian Beef Cattle Breeds, 3259
Rapid Communication: A Polymorphism Detected in Sheep Using a Complement Subcomponent C1r (*C1R*) Probe, 629
Rapid Communication: Bovine Dinucleotide Repeat Polymorphisms *ABS010, ABS011, ABS012, ABS013,* and *ABS014, 3189*
Rapid Communication: Polymorphism in a Bovine Heart-Fatty Acid Binding Protein-Like (H-FABPL) DNA Sequence, 919
Rapid Communication: Restriction Fragment Length Polymorphism in Amplification Products of the Bovine Growth Hormone-Releasing Hormone Gene, 3789
Rapid Communication: Variable Number of Tandem Repeat Marker, RVF9401, in Rainbow Trout, 1213
Rapid Communication: Variable Number of Tandem Repeat Marker, RVF9303, in Rainbow Trout, 1214
Polypay
252A
Polyspermy
214A
Ponderosa Pine
208A
Porcine
136A, 144A, 212A, 214A
Rapid Communication: A *Dra*I Restriction Fragment Length Polymorphism at the Porcine *3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase (HMGCoAR)* Locus, 310
Rapid Communication: An *Eco*RI Polymorphism at the Porcine *Nebulin* (*Neb*) Locus, 920
Rapid Communication: Restriction Fragment Length Polymorphism at the Porcine *Superoxide Dismutase* Locus, 921
Porcine IGFBP-5
144A
Porcine Somatotropin
149A, 151A, 153A, 161A, 218A
Pork
160A, 161A, 162A, 164A
A Comparison of Preferences for Pork Sandwiches Produced from Animals With and Without Somatotropin Administration, 1048
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: I. Dietary Level of Flaxseed, 1982
Effects of Ground Flaxseed in Swine Diets on Pig Performance and on Physical and Sensory Characteristics and Omega-3 Fatty Acid Content of Pork: II. Duration of 15 Dietary Flaxseed, 1987
Pork Characteristics as Affected by Two Populations of Swine and Six Crude Protein Levels, 3621
Pork Carcass
Pork Carcass Evaluation with an Automated and Computerized Ultrasonic System, 29
Pork Quality
Effects of Preslaughter Muscle Exercise on Muscle Metabolism and Meat Quality Studied in Anesthetized Pigs of Different Halothane Genotypes, 108
Portal-Drained Viscera
Circadian Changes in Energy Expenditure in the Preruminant Calf: Whole Animal and Tissue Level, 552
Visceral Oxygen Consumption During Chronic Feed Restriction and Realimentation in Sheep, 843
Portal Vein
Effect of Intravenous Glucose Infusion on Metabolism of Portal-Drained Viscera in Sheep Fed a Cereal/Straw-Based Diet, 2146
Portal and Hepatic Fluxes in Sheep and Concentrations in Cattle Ruminal Fluid of 3-(4-Hydroxyphenyl)propionic, Benzoic, 3-Phenylpropionic, and *trans*-Cinnamic Acids, 1766
Postmortem Changes
Effects of Postmortem Aging Time, Animal Age, and Sex on Degradation of Titin and Nebulin in Bovine Longissimus Muscle, 1064
Postmortem Tenderization
Is Z-Disk Degradation Responsible for Postmortem Tenderization?, 1351
Postpartum
231A, 241A
Postpartum Anestrus
235A, 254A
Postpartum Cow
233A
Improved Synchrony, Conception Rate, and Fecundity in Postpartum Suckled Beef Cows Fed Melengestrol Acetate Prior to Prostaglandin $F_{2\alpha}$, 954
Postpartum Interval
Preweaning Growth of Angus- (*Bos taurus*), Brahman- (*Bos indicus*), and Tuli- (Sanga) Sired Calves and Reproductive Performance of their Brahman Dams, 2558
Postpartum Period
Buserelin Alters the Development of the Corpora Lutea in Cyclic and Early Postpartum Cows, 805
Effect of Norgestomet Treatment After Insemination on the Calving Rate of Postpartum Suckled Beef Cows, 3230
Reproductive Responses and Calf Birth and Weaning Weights as Affected by Body Condition at Parturition and Postpartum Weight Gain in Primiparous Beef Cows, 1251
Posture
Circadian Changes in Energy Expenditure in the Preruminant Calf: Whole Animal and Tissue Level, 552
Postweaning
Postweaning and Feedlot Growth and Carcass Characteristics of Angus-, Gray Brahman-, Gir-, Indu-Brazil-, Nellore-, and Red Brahman-Sired F_1 Calves, 373
Postweaning Estrus
Genetics of the Interval from Weaning to Estrus in First-Litter Sows: Distribution of Data, Direct Response of Selection, and Heritability, 2193
Postweaning Interval
In Vivo Study of Circadian Variations of the Cecal Fermentation Pattern in Postweaned and Adult Rabbits, 128
Potassium-40
Prediction of Carcass and Empty Body Composition of Steers by ^{40}K Emission Detection, 2882
Poultry
255A, 256A
Genetic Correlation and Heritabilities for Purebred and Crossbred Performance in Poultry Egg Production Traits, 2220
Poultry Litter
Dietary Effects on Fat Deposition and Fatty Acid Profiles in Muscle and Fat Depots of Friesian Bull Calves, 2712
Poultry Manure
278A
Preadipocyte
The Onset of Maternal Diabetes in Swine Induces Alterations in the Development of the Fetal Preadipocyte, 69
Precocious Puberty
222A

Preconditioning
133A
Predation
Mortality of Domestic Sheep in Free-Ranging Flocks in Southeastern Norway, 1012
Prediction
Predicting Beef Carcass Cutability, 406
Prediction of Tissular Body Composition from Protein and Lipid Deposition in Growing Pigs, 1567
Technical Note: Changes in Genetic Predictions Between Subsequent Evaluations, 2204
Prediction Equations
Characteristics and Efficiency of Fast-Growing Feedlot Steers Fed Different Dietary Energy Concentrations, 931
Pregnancy
188A, 211A, 227A, 230A, 232A, 252A
Acute Shifts in Relaxin, Progesterone, Prolactin, and Growth Hormone Secretion in Chinese Meishan Gilts During Late Pregnancy and After Hysterectomy, 3732
Control of Blood Flow to the Gravid Uterus of Domestic Livestock Species, 1852
Effects of Limit Feeding a High-Grain Diet on Puberty and Reproductive Performance of Ewes, 3206
Prenatal Androgenization of Lambs: I. Alterations of Growth, Carcass Characteristics, and Metabolites in Blood, 1694
Prenatal Androgenization of Lambs: II. Metabolism in Adipose Tissue and Liver, 1701
Preweaning Growth of Angus- (*Bos taurus*), Brahman- (*Bos indicus*), and Tuli- (Sanga) Sired Calves and Reproductive Performance of their Brahman Dams, 2558
Production by Ewes Rearing Single or Twin Lambs: Effects of Dietary Crude Protein Percentage and Supplemental Zinc Methionine, 1227
Regulation of Organic Nutrient Metabolism During Transition from Late Pregnancy to Early Lactation, 2804
Pregnancy Diagnosis
251A
Pregnancy Rate
Fate of the Dominant Follicle, Embryonal Survival, and Pregnancy Rates in Dairy Cattle Treated with Prostaglandin $F_{2\alpha}$ and Progestins in the Absence or Presence of a Functional Corpus Luteum, 3743
Pregnancy-Specific Protein B
Detection of Fetal Twins in Sheep Using a Radioimmunoassay for Pregnancy-Specific Protein B, 960
Effect of Pregnancy-Specific Protein B on Luteal Cell Progesterone, Prostaglandin, and Oxytocin Production During Two Stages of the Bovine Estrous Cycle, 2662
Fertility of Bull Semen Packaged in .25- and .5-Milliliter French Straws, 1914
Pregnant Cattle
Transvaginal Aspiration of Oocytes from Hormone-Treated Pregnant Beef Cattle for In Vitro Fertilization, 967
Pregnant Goats
279A
Prenatal
Effect of Prenatal Androgenization on Performance, Lactation, Carcass, and Sensory Traits of Heifers in a Single-Calf Heifer System, 986
Prenatal Androgenization
152A
Prenatal Androgens
Parturition and Periparturient Reproductive and Metabolic Hormone Concentrations in Prenatally Androgenized Beef Heifers, 3712
Preovulatory Follicle
220A
Prepubertal
229A
Preservation
287A
Pre-Weaned Calves
276A
Preweaning Management
159A
Preweaning Mortality
Reducing Pig Mortality Through Supervision During the Perinatal Period, 3543
Preweaning Period
236A
Ewe Productivity and Subsequent Preweaning Lamb Performance in St. Croix Sheep Bred at Different Times During the Year, 1258
Preweaning Traits
118A
Primiparous Cow
241A
Primordial Follicles
209A
Proanthocyanidins
Nutritional Toxicology of Tannins and Related Polyphenols in Forage Legumes, 1516
Probes
Alternative Pork Carcass Evaluation Techniques: I. Differences in Predictions of Value, 637
Alternative Pork Carcass Evaluation Techniques: II. Analysis of Error Attributable to Sex, Genotype, and Weight, 645
Probiotics
Different Strains of *Saccharomyces cerevisiae* Differ in Their Effects on Ruminal Bacterial Numbers In Vitro and in Sheep, 1811
Problem-Based Learning
289A
Problem Solving
135A
Processing
202A, 286A
Effect of Corn Hybrid and Grain Processing Method on Rate of Starch Disappearance and Performance of Finishing Cattle, 360
Influence of Processing Supplemental Alfalfa on Intake and Digestion of Dormant Bluestem-Range Forage by Steers, 1187
Interaction of Feed Intake Level on Comparative Ruminal and Total Tract Digestion of Dry-Rolled and Steam-Flaked Corn, 1239
Production Costs
244A
Production Efficiency
241A
Production Per Ewe
244A
Production Performance
The Specific-Stress-Free Housing System Has Positive Effects on Productivity, Health, and Welfare of Pigs, 1544
Production Systems
Meat Goat Production and Marketing, 291
Productivity
244A
Productivity Index
Comparison of Landim and Africander Cattle in Southern Mozambique: II. Female Fertility, Reproduction, and Beef Offtake, 3527
Professional Society
Changing Paradigms in Animal Agriculture: Addressing Animal Issues in Washington by a Professional Society, 3178
Profitability
Influence of Roughage and Grain Processing in High-Concentrate Diets on the Performance of Long-Fed Holstein Steers, 1888
Multistage Selection for Maximum Economic Return with an Application to Beef Cattle Breeding, 699
Progesterone
216A, 226A, 229A, 230A, 232A, 234A
Acute Shifts in Relaxin, Progesterone, Prolactin, and Growth Hormone Secretion in Chinese Meishan Gilts During Late Pregnancy and After Hysterectomy, 3732
An Evaluation of Estrus Synchronization Programs in Reproductive Management of Dairy Herds, 3687
An Increase in Serum Lipids Increases Luteal Lipid Content and Alters the Disappearance Rate of Progesterone in Cows, 541
Effect of Media Substitutes on Bovine Granulosa Cell Function and Proliferation During In Vitro Culture, 3287
Effect of Pregnancy-Specific Protein B on Luteal Cell Progesterone, Prostaglandin, and Oxytocin Production During Two Stages of the Bovine Estrous Cycle, 2662

Effects of Energy Source in the Diet on Reproductive Hormones and Insulin During Lactation and Subsequent Estrus in Multiparous Sows, 3022
Evaluation of Response to Hormonal Therapy in Prepubertal Gilts of Different Genetic Lines, 3062
Exogenous Oxytocin Decreases Interestrous Interval of Cyclic Gilts, 3681
Influence of Maternal and Service-Sire Breed on Serum Progesterone and Estrogen Before Calving and Plasma 13,14-Dihydro-15-Keto-Prostaglandin $F_{2\alpha}$ After Calving, 1167
Mifepristone (RU 486) Induces Parturition in Primiparous Beef Heifers and Reduces Incidence of Dystocia, 3421
Progestins
Fate of the Dominant Follicle, Embryonal Survival, and Pregnancy Rates in Dairy Cattle Treated with Prostaglandin $F_{2\alpha}$ and Progestins in the Absence or Presence of a Functional Corpus Luteum, 3743
Progestogens
220A, 222A
Improved Synchrony, Conception Rate, and Fecundity in Postpartum Suckled Beef Cows Fed Melengestrol Acetate Prior to Prostaglandin $F_{2\alpha}$, 954
Prolactin
147A, 215A, 223A
61B
Acute Shifts in Relaxin, Progesterone, Prolactin, and Growth Hormone Secretion in Chinese Meishan Gilts During Late Pregnancy and After Hysterectomy, 3732
Dietary Protein and(or) Energy Restriction in Mares: Plasma Growth Hormone, IGF-I, Prolactin, Cortisol, and Thyroid Hormone Responses to Feeding, Glucose, and Epinephrine, 1424
Feed Deprivation of Mares: Plasma Metabolite and Hormonal Concentrations and Responses to Exercise, 3696
Serum Concentrations of Luteinizing Hormone, Growth Hormone, and Prolactin in Untreated and Estradiol-Treated Ovariectomized Ewes After Immunoneutralization of Hypothalamic Neuropeptide Y, 2105
Proliferation
143A
Promoter
Rapid Communication: Nucleotide Sequence of the Promoter and First Exon of the Somatotropin Receptor Gene in Cattle, 1529
Prophyrin
186A
Propionic Acid
Effects of Glycine and Bovine Serum Albumin on Inhibition of Propionate Metabolism in Ovine Hepatocytes Caused by Reduced Phenolic Monomers, 3009
Insulin and Glucagon Regulation of Gluconeogenesis in Preruminating and Ruminating Bovine, 546
Plasma Insulin and Glucagon Responses to Propionate Infusion into Femoral and Mesenteric Veins in Sheep, 191
Prostaglandins
212A, 215A, 216A, 224A
An Evaluation of Estrus Synchronization Programs in Reproductive Management of Dairy Herds, 3687
Day of Estrous Cycle Affects Follicular Dynamics After Induced Luteolysis in Ewes, 2094
Effect of Pregnancy-Specific Protein B on Luteal Cell Progesterone, Prostaglandin, and Oxytocin Production During Two Stages of the Bovine Estrous Cycle, 2662
Effects of Single or Primary Plus Booster Prostaglandin $F_{2\alpha}$ Immunization Regimens on Immune, Ovarian, and Growth Responses of Heifers, 2406
Growth and Estrous Behavior of Heifers Actively Immunized Against Prostaglandin $F_{2\alpha}$, 345
Improved Synchrony, Conception Rate, and Fecundity in Postpartum Suckled Beef Cows Fed Melengestrol Acetate Prior to Prostaglandin $F_{2\alpha}$, 954
Influence of Maternal and Service-Sire Breed on Serum Progesterone and Estrogen Before Calving and Plasma 13,14-Dihydro-15-Keto-Prostaglandin $F_{2\alpha}$ After Calving, 1167
Reducing Pig Mortality Through Supervision During the Preinatal Period, 3543
Protected Protein
272A
Protein
178A, 189A, 190A, 243A, 258A, 259A, 269A, 278A
A Collaborative Study of In Situ Forage Protein Degradation, 583
Effect of Dietary Protein and Estradiol-17β on Growth and Insulin-like Growth Factor I in Cattle During Realimentation, 589
Effect of Molasses-Based Liquid Supplements on Digestibility of Creeping Bluestem and Performance of Mature Cows on Winter Range, 853
Effect of Protein Level and Source in Molasses Slurries on the Performance of Growing Cattle Fed Hay During Winter, 3078
Effects of Energy or Protein Supplements and Stage of Production on Intake and Digestibility of Hay by Beef Cows, 651
Effects of Feeding Energy or Protein Supplements Before or After Calving on Performance of Spring-Calving Cows Grazing Native Range, 657
Effects of Protein Concentration and Protein Source on Performance of Newly Arrived Feedlot Steers, 1585
Effects of Protein Source on Nitrogen Metabolism in Continuous Culture and Intestinal Digestion In Vitro, 1819
Growth Patterns in Selected Organs of the Miniature Swine as Determined by Gross Macromolecular Composition, 1340
High-Lysine Corn as a Source of Protein and Energy for Finishing Calves, 228
Influence of Nitrogen Fertilization and Defoliation Frequency on Nitrogen Constituents and Feeding Value of Annual Ryegrass, 2474
Pork Characteristics as Affected by Two Populations of Swine and Six Crude Protein Levels, 3621
Production by Ewes Rearing Single or Twin Lambs: Effects of Dietary Crude Protein Percentage and Supplemental Zinc Methionine, 1227
Protein and Energy Utilization by Ruminants at Pasture, 278
Review of Some Aspects of Growth and Development of Feedlot Cattle, 3152
Supplemental Protein and Energy for Beef Cows Consuming Endophyte-Infected Tall Fescue, 3427
The Effects of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: II. Protein and Amino Acid Digestion, 2131
True Digestibility of Amino Acids and Protein in Pigs with ^{13}C as a Label to Determine Endogenous Amino Acid Excretion, 1077
Protein Accretion
Protein and Lipid Accretion in Body Components of Growing Gilts (20 to 45 Kilograms) as Affected by Energy Intake, 2355
Protein Degradation
149A, 157A
A Three-Step In Vitro Procedure for Estimating Intestinal Digestion of Protein in Ruminants, 1459
Influence of Altering Ruminal Degradation of Soybean Meal Protein on In Situ Ruminal Fiber Disappearance of Forages and Fibrous Byproducts, 2428
Nutritional Toxicology of Tannins and Related Polyphenols in Forage Legumes, 1516
Ruminal Degradation of Switchgrass, Big Bluestem, and Smooth Bromegrass Leaf Proteins, 598
Studies on the In Situ Nitrogen Degradability Corrected for Bacterial Contamination of Concentrate Feeds in Steers, 220
Supplemental Protein Sources for Steers Fed Corn-Based Diets: II. Growth and Estimated Metabolizable Amino Acid Supply, 1476
Supplemental Protein Sources for Steers Fed Corn-Based Diets: I. Ruminal Characteristics and Intestinal Amino Acid Flows, 1466
Protein Kinase C Inhibitors
217A
Protein Level
257A
Protein Metabolism
185A
Protein Requirement
Changes in Plasma Urea Concentration Can Be Used to Determine Protein Requirements of Two Populations of Pigs with Different Protein Accretion Rates, 2631
Protein Restriction
146A

Protein Sources
187A, 257A, 272A
Feedlot Performance and Carcass Characteristics of Holstein Steers as Affected by Source of Dietary Protein and Level of Ruminally Protected Lysine and Methionine, 3503
Protein Synthesis
In Vitro Ouabain-Sensitive Respiration and Protein Synthesis in Rumen Epithelial Papillae of Hereford Steers Fed Either Timothy Hay or Timothy Hay Supplemented with Cracked Corn Once Daily, 3775
Protein Turnover
139A, 275A
Proteinase Inhibitor
212A
Proteinases
217A
Comparison Between 3-Methylhistidine Production and Proteinase Activity as Measures of Skeletal Muscle Breakdown in Protein-Deficient Growing Barrows, 2272
Use of Genetically Identical (Clone) Steers to Determine the Effects of Estrogenic and Androgenic Implants on Beef Quality and Palatability Characteristics, 3317
Protozoa
251A
PSPB
216A
PSS
193A
Puberty
211A, 218A, 232A, 233A, 240A, 247A
Body Composition and Metabolic Profiles Associated with Puberty in Beef Heifers, 3409
Body Composition of Gilts at Puberty, 2524
Effect of Ruminally Undegradable Protein from Fish Meal on Growth and Reproduction of Peripuberal Brahman Bulls, 947
Effects of Growth Rate on Carcass Composition and Lipid Partitioning at Puberty and Growth Hormone, Insulin-Like Growth Factor I, Insulin, and Metabolites Before Puberty in Beef Heifers, 2390
Effects of Limit Feeding a High-Grain Diet on Puberty and Reproductive Performance of Ewes, 3206
Effects of Postweaning Diet on Age and Weight at Puberty and Milk Production of Heifers, 63
Endocrine and Ovarian Responses to Exogenous Estradiol-17β in 6-Month-Old Heifers Previously Immunized Against Growth Hormone-Releasing Factor, 2071
Evaluation of Response to Hormonal Therapy in Prepubertal Gilts of Different Genetic Lines, 3062
Reproduction of F_1 Meishan, Fengjing, Minzhu, and Duroc Gilts and Sows, 711
Public
Changing Paradigms in Animal Agriculture: Addressing Animal Issues in Washington by a Professional Society, 3178
Public Concern
121A
Pup Weight
Differences in Pup Birth Weight, Pup Variability Within Litters, and Dam Weight of Mice Selected for Alternative Criteria to Increase Litter Size, 1948
Purine Excretion
263A

Q

Quality
197A
Quality Assurance
Beef Quality Assurance Education Via Satellite Videoconference, 3182
The Conduct of Clinical Trials and Good Clinical Practices: The Sponsor's Perspective, 614
Quality Grade
166A
Quantitative Trait Loci
110A, 111A, 112A
Quantitative Traits
Association of PIT1 Polymorphisms with Growth and Carcass Traits in Pigs, 1282

R

Rabbits
118A, 153A, 154A, 208A
Effect of Substitution of Starch for Fiber and Fat in Isoenergetic Diets on Nutrient Digestibility and Reproductive Performance of Rabbits, 1131
In Vivo Study of Circadian Variations of the Cecal Fermentation Pattern in Postweaned and Adult Rabbits, 128
Radioimmunoassay
Detection of Fetal Twins in Sheep Using a Radioimmunoassay for Pregnancy-Specific Protein B, 960
Rainbow Trout
Dose-Response Effects of Recombinant Bovine Somatotropin (Posilac™) on Growth Performance and Body Composition of Two-Year-Old Rainbow Trout (*Oncorhynchus mykiss*), 3216
Rapid Communication: Variable Number of Tandem Repeat Marker, RVF9401, in Rainbow Trout, 1213
Rapid Communication: Variable Number of Tandem Repeat Marker, RVF9303, in Rainbow Trout, 1214
Ram
132A
Rangelands
206A
Diet Quality and Ruminal Digestion in Beef Cattle Grazing Midgrass Prairie Rangeland or Plains Bluestem Pasture Throughout the Summer, 1174
Effect of Molasses-Based Liquid Supplements on Digestibility of Creeping Bluestem and Performance of Mature Cows on Winter Range, 853
RAPD
110A, 111A
Rats
149A, 186A, 189A, 209A
Accumulation of the β-Agonist Clenbuterol by Pigmented Tissues in Rat Eye and Hair of Veal Calves, 2050
β-Adrenergic Receptor Subtype Transcripts in Porcine Adipose Tissue, 1962
Biogenic Amines in the Hypothalamus of Rats After Diethyldithiocarbamate or AIMAX Treatment, an Alternative for Norepinephrine Depletion, 1147
Comparison of Daily Versus Continuous Administration of Somatotropin on Growth Rate, Feed Intake, and Body Composition in Intact Female Rats, 1019
Temperature-Dependent Responses of Rats to Ergovaline Derived from Endophyte-Infected Tall Fescue, 1954
Realimentation
269A
Real-Time Ultrasound
163A, 251A
Rebreeding
120A
Receptors
219A, 225A
Effects of Insulin-Like Growth Factor I and Insulin on Proliferation and on Basal and Luteinizing Hormone-Induced Steroidogenesis of Bovine Thecal Cells: Involvement of Glucose and Receptors for Insulin-Like Growth Factor I and Luteinizing Hormone, 3719
Equine Fescue Toxicosis: Signs and Solutions, 899
Ergovaline Binding and Activation of D_2 Dopamine Receptors in GH_4ZR_7 Cells, 1396
Glucocorticoid Receptor Binding in Porcine Preadipocytes During Development, 722
Messenger Ribonucleic Acid for Gonadotropin-Releasing Hormone Receptor and Numbers of Gonadotropin-Releasing Hormone Receptors in Ovariectomized Ewes after Hypothalamic-Pituitary Disconnection and Treatment with Estradiol, 1784
The Role of Insulin-Like Growth Factor I in Clenbuterol-Stimulated Growth in Growing Lambs, 3069
Recombinant Porcine Somatotropin
194A

Recombinant Protein
219A
Record Keeping
133A
Refeeding
Effect of Dietary Protein and Estradiol-17β on Growth and Insulin-like Growth Factor I in Cattle During Realimentation, 589
Regions
Performance and Genetic Trends in Purebred Simmental for Regions of the United States, 2540
Regression Coefficient
263A
Regulations
195A
The Conduct of Clinical Trials and Good Clinical Practices: The Sponsor's Perspective, 614
Relaxin
222A
Acute Shifts in Relaxin, Progesterone, Prolactin, and Growth Hormone Secretion in Chinese Meishan Gilts During Late Pregnancy and After Hysterectomy, 3732
Renewable Fiber
243A
Repartition
151A
Repeatability
Retention Time of Digesta in the Rumen: Its Repeatability and Relationship with Wool Production of Merino Rams, 206
Reproduction
114A, 130A, 185A, 219A, 223A, 228A, 236A, 240A, 251A, 255A
Comparison of Landim and Africander Cattle in Southern Mozambique: II. Female Fertility, Reproduction, and Beef Offtake, 3527
Effect of Molasses-Based Liquid Supplements on Digestibility of Creeping Bluestem and Performance of Mature Cows on Winter Range, 853
Effect of Substitution of Starch for Fiber and Fat in Isoenergetic Diets on Nutrient Digestibility and Reproductive Performance of Rabbits, 1131
Effect of Supplemental Yeast Culture in Sow Gestation and Lactation Diets on Apparent Nutrient Digestibilities and Reproductive Performance Through One Reproductive Cycle, 1741
Effects of Calcium Soaps of Fatty Acids on Postpartum Reproductive Activity in Beef Cows and Growth of Calves, 2888
Effects of Feeding Energy or Protein Supplements Before or After Calving on Performance of Spring-Calving Cows Grazing Native Range, 657
Effects of Induced or Delayed Parturition and Supplemental Dietary Fat on Colostrum and Milk Composition in Sows, 1906
Ewe Productivity and Subsequent Preweaning Lamb Performance in St. Croix Sheep Bred at Different Times During the Year, 1258
Genetics of the Interval from Weaning to Estrus in First-Litter Sows: Distribution of Data, Direct Response of Selection, and Heritability, 2193
Influence of Undegraded Intake Protein Supplementation on Milk Production, Weight Gain, and Reproductive Performance in Postpartum Brahman Cows, 3223
Passive Immunization of Ewes Against an Inhibin-Like Peptide Increases Follicle-Stimulating Hormone Concentrations, Ovulation Rate, and Prolificacy in Spring-Mated Ewes, 1433
Performance of Hair Breeds and Prolific Wool Breeds of Sheep in Southern Illinois: Lamb Production of F_1 Adult Ewes, 1602
Relationships of Serum Insulin-Like Growth Factor I Concentrations to Growth, Composition, and Reproductive Traits of Swine, 3241
Role of Dietary Lipids on Fetal Tissue Fatty Acid Composition and Fetal Survival in Swine at 42 Days of Gestation, 1372
Reproductive Physiology
Instructing the Animal Physiology Graduate Student in Human Assisted Reproductive Technology, 2503
Reproductive Tract Score
240A
Reproductive Traits
Within-Herd Genetic Analyses of Stayability of Beef Females, 993
Requirements
180A, 181A, 186A, 192A, 269A
Added Dietary Methionine in Starter Pig Diets Containing Spray-Dried Blood Products, 2647
Application of the Cornell Net Carbohydrate and Protein Model for Cattle Consuming Forages, 267
Ideal Digestible Lysine Level for Early- and Late-Finishing Swine, 773
Valine Requirement of the Finishing Pig, 2315
Research
Care of Fish in Biological Research, 3485
Respiration
Vocalization and Physiological Response of Pigs During Castration With or Without a Local Anesthetic, 381
Respiratory Disease
238A
Rest
164A
Restaurants
155A
Restaurant Consumer Acceptance of Beef Loin Strip Steaks Tenderized with Calcium Chloride, 3633
Restraint
125A
Restraint, Handling
127A
Restricted Feeding
139A
Compensatory Growth and Carcass Quality in Growth-Restricted and Refed Beef Steers, 2971
Dietary Protein and(or) Energy Restriction in Mares: Plasma Glucose, Insulin, Nonesterified Fatty Acid, and Urea Nitrogen Responses to Feeding, Glucose, and Epinephrine, 136
Feed Deprivation of Mares: Plasma Metabolite and Hormonal Concentrations and Responses to Exercise, 3696
Retail Marketing
Effects of Dietary Supplementation of Vitamin E on Storage and Caselife Properties of Lamb Retail Cuts, 399
Retail Product
163A
Retained Ownership
133A
Retention
Mineral and Nitrogen Balance in Lambs Implanted with Zeranol, 3785
Retention Time of Digesta in the Rumen: Its Repeatability and Relationship with Wool Production of Merino Rams, 206
Retention Efficiency
183A
Retention Time
The Poisson Process as a Model for Compartment Digesta Flow in Ruminants, 177
Retinol
The Effect of Excessive Dietary Vitamin A on Performance and Vitamin E Status in Swine Fed Diets Varying in Dietary Vitamin E, 1093
RFLP
113A
Rapid Communication: *Taq*I Restriction Fragment Length Polymorphism at the Porcine *Bone Morphogenetic Protein 6* (*BMP6*) Locus, 312
Rapid Communication: A *Dra*I Restriction Fragment Length Polymorphism at the Porcine *3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase (HMGCoAR)* Locus, 310
Rapid Communication: An *Eco*RI Polymorphism at the Porcine *Nebulin* (*Neb*) Locus, 920
Rapid Communication: A *Taq*I Restriction Fragment Length Polymorphism in the Bovine Calpastatin Gene, 3790
Rapid Communication: *Stu*I Restriction Fragment Length Polymorphism at the Porcine *Bone Morphogenetic Protein 5* (*BMP5*) Locus, 311
Rapid Communication: Polymorphism in a Bovine Heart-Fatty Acid Binding Protein-Like (H-FABPL) DNA Sequence, 919
Rapid Communication: Restriction Fragment Length Polymorphism at the Porcine *Superoxide Dismutase* Locus, 921

Relationship of Restriction Fragment Length Polymorphisms (RFLP) at the Bovine Calpastatin Locus to Calpastatin Activity and Meat Tenderness, 3608
Rhizoctonia
The Involvement of Slaframine and Swainsonine in Slobbers Syndrome: A Review, 1499
Rice Flour
179A
Risk
117A
RNA
Growth Patterns in Selected Organs of the Miniature Swine as Determined by Gross Macromolecular Composition, 1340
Roast
177A
Roasted Soybeans
271A
Roasting
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: I. Digestion of Nitrogen and Amino Acids, 824
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: II. Digestion of Artifacts of Heating, 835
The Effect of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: I. Organic Matter, Energy, Fiber, and Fatty Acid Digestion, 2120
Romanov
252A
Romosinuano
124A
Rotational Grazing
205A
Roughages
197A
Influence of Roughage and Grain Processing in High-Concentrate Diets on the Performance of Long-Fed Holstein Steers, 1888
RU 486
Mifepristone (RU 486) Induces Parturition in Primiparous Beef Heifers and Reduces Incidence of Dystocia, 3421
Rumen
122A, 205A, 207A, 262A, 264A, 265A, 273A
Absorption of L-Carnosine, L-Methionine, and L-Methionylglycine by Isolated Sheep Ruminal and Omasal Epithelial Tissue, 3464
Effect of Diet Energy Concentration and of Age of Holstein-Friesian Bull Calves on Growth Rate, Urea Space and Fat Deposition, and Ruminal Volume, 1666
Effect of Extended Underfeeding on Digestion and Nitrogen Balance in Nonlactating Cows, 211
Effect of Supplemental Fish Meal Protein on Site and Extent of Digestion in Beef Steers, 1196
Influence of Duodenal Slaframine Infusion on Site of Nutrient Disappearance from the Digestive Tract of Steers Fed a High-Concentrate Diet, 3103
Supplemental Protein Sources for Steers Fed Corn-Based Diets: I. Ruminal Characteristics and Intestinal Amino Acid Flows, 1466
Supplemental Protein Sources for Steers Fed Corn-Based Diets: II. Growth and Estimated Metabolizable Amino Acid Supply, 1476
Technical Note: Comparison of In Vitro and In Situ Digestibility Methods, 578
Rumen Bacteria
Composition of Ruminal Bacteria Harvested from Steers as Influenced by Dietary Forage Level and Fat Supplementation, 2469
Fractionation of Nitrogen Isotopes by Mixed Ruminal Bacteria, 257
Preventing In Vitro Lactate Accumulation in Ruminal Fermentations by Inoculation with *Megasphaera elsdenii*, 250
Rumen Degradation Characteristics
267A
Rumen Degraded Protein
Desirable Characteristics of Forage Legumes for Improving Protein Utilization in Ruminants, 2760
Rumen Digestion
Diet Quality and Ruminal Digestion in Beef Cattle Grazing Midgrass Prairie Rangeland or Plains Bluestem Pasture Throughout the Summer, 1174
Influence of Altering Ruminal Degradation of Soybean Meal Protein on In Situ Ruminal Fiber Disappearance of Forages and Fibrous Byproducts, 2428
Rumen Epithelium
In Vitro Ouabain-Sensitive Respiration and Protein Synthesis in Rumen Epithelial Papillae of Hereford Steers Fed Either Timothy Hay or Timothy Hay Supplemented with Cracked Corn Once Daily, 3775
Rumen Fermentation
262A
Different Strains of *Saccharomyces cerevisiae* Differ in Their Effects on Ruminal Bacterial Numbers In Vitro and in Sheep, 1811
Effects of Protein Source on Nitrogen Metabolism in Continuous Culture and Intestinal Digestion In Vitro, 1819
Fractionation of Nitrogen Isotopes by Mixed Ruminal Bacteria, 257
Rumen Microorganisms
263A
Effect of Malate on In Vitro Mixed Ruminal Microorganism Fermentation, 2141
Rumen Protected Amino Acids
271A, 272A
Rumen Undegraded Protein
Desirable Characteristics of Forage Legumes for Improving Protein Utilization in Ruminants, 2760
Ruminal pH
The Effect of Daily Slaframine Injection on Salivary Score, Feed Intake, Ruminal pH, and Circulating Concentrations of Somatotropin and Insulin-Like Growth Factor I, 526
Ruminants
195A, 196A, 271A, 263A, 268A, 282A, 285A
A Collaborative Study of In Situ Forage Protein Degradation, 583
A Three-Step In Vitro Procedure for Estimating Intestinal Digestion of Protein in Ruminants, 1459
Adaptation to Small Intestinal Starch Assimilation and Glucose Transport in Ruminants, 1828
Different Strains of *Saccharomyces cerevisiae* Differ in Their Effects on Ruminal Bacterial Numbers In Vitro and in Sheep, 1811
In Vitro Fermentation of Cellulose, Beet Pulp, Citrus Pulp, and Citrus Pectin Using Fecal Inoculum from Cats, Dogs, Horses, Humans, and Pigs and Ruminal Fluid from Cattle, 3639
Insulin and(or) Dexamethasone Regulation of Glucose and Acetate Utilization in Ovine and Bovine Adipose Tissue Explants Incubated for Seven Days, 2063
Leucaena Toxicosis and Its Control in Ruminants, 1487
Plant Compositional Constituents Affecting Between-Plant and Animal Species Prediction of Forage Intake, 2447
Portal and Hepatic Fluxes in Sheep and Concentrations in Cattle Ruminal Fluid of 3-(4-Hydroxyphenyl)propionic, Benzoic, 3-Phenylpropionic, and *trans*-Cinnamic Acids, 1766
Protein and Energy Utilization by Ruminants at Pasture, 278
The Poisson Process as a Model for Compartment Digesta Flow in Ruminants, 177
Rumination Activity
264A
Runt Pigs
139A
Ryanodine Receptor Genotypes
137A
Rye
198A
Ryegrass
198A, 261A
Influence of Nitrogen Fertilization and Defoliation Frequency on Nitrogen Constituents and Feeding Value of Annual Ryegrass, 2474

S

Saccharomyces cerevisiae
Different Strains of *Saccharomyces cerevisiae* Differ in Their Effects on Ruminal Bacterial Numbers In Vitro and in Sheep, 1811

Safety
The Real Story About Food Safety, 2741
Sake
284A
Saliva
The Effect of Daily Slaframine Injection on Salivary Score, Feed Intake, Ruminal pH, and Circulating Concentrations of Somatotropin and Insulin-Like Growth Factor I, 526
The Effect of Slaframine on Salivary Output and Subacute and Acute Acidosis in Growing Beef Steers, 516
Salivary Cortisol
The Specific-Stress-Free Housing System Has Positive Effects on Productivity, Health, and Welfare of Pigs, 1544
Sand Shinnery
134A
Sanga Cattle
154A
Saponin
260A
Satellite Cell
143A
Satellites
Beef Quality Assurance Education Via Satellite Videoconference, 3182
Saturated Fat
282A
Science
Consumer Concerns About Modern Technology in Agriculture: Considerations for Undergraduate and Graduate Teaching, 2727
Science Pipeline
Science and Agriculture Policy at Land-Grant Institutions, 1628
Scrotal Circumference
228A
Season
131A, 140A, 205A, 234A
Seasonality
Ewe Productivity and Subsequent Preweaning Lamb Performance in St. Croix Sheep Bred at Different Times During the Year, 1258
Secondary Traits
Maximizing Selection Efficiency for Categorical Traits, 1933
Sectretin
210A
Selection
113A, 115A, 116A, 120A, 237A
Comparison of Evaluation-Selection Systems for Maximizing Genetic Response at the Same Level of Inbreeding, 2208
Differences in Pup Birth Weight, Pup Variability Within Litters, and Dam Weight of Mice Selected for Alternative Criteria to Increase Litter Size, 1948
Divergent Selection for Blood Serum Insulin-Like Growth Factor I Concentration in Beef Cattle: I. Nongenetic Effects, 1927
Effect of Divergent Selection for Postweaning Average Daily Gain on Front-End Soundness of Market-Weight Pigs, 1940
Genetics of the Interval from Weaning to Estrus in First-Litter Sows: Distribution of Data, Direct Response of Selection, and Heritability, 2193
Growth of Testes and Testicular Morphology After Eight Generations of Selection for Increased Predicted Weight of Testes at 150 Days of Age in Boars, 2186
Plasma Growth Hormone, Insulin-Like Growth Factor I, and Insulin-Like Growth Factor Binding Proteins in Pigs with Divergent Genetic Merit for Postweaning Average Daily Gain, 1776
Selection for Lambing Rate and Clean Fleece in Sheep, 3195
Sperm Production in Boars After Nine Generations of Selection for Increased Weight of Testis, 2177
Uterine Mass and Uterine Blood Volume in Mice Selected 21 Generations for Alternative Criteria to Increase Litter Size, 2243
Selection, Lean
114A
Selection For Milk Production
119A
Selection Responses
Direct and Maternal Genetic Responses to Selection for Weaning or Yearling Weight or for Yearling Weight and Muscle Score in Hereford Cattle, 2951
Selenium
193A, 276A
Blood Serum Concentrations of Selenium in Female Llamas (*Lama glama*) in Relationship to Feeding Practices, Region of United States, Reproductive Stage, and Health of Offspring, 337
Semen
232A
Semen Preservation
Fertility of Bull Semen Packaged in .25- and .5-Milliliter French Straws, 1914
Seminiferous Tubules
228A
Growth of Testes and Testicular Morphology After Eight Generations of Selection for Increased Predicted Weight of Testes at 150 Days of Age in Boars, 2186
Senepol
238A
Sensory Evaluation
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth, Carcass, and Sensory Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1327
Sepiolite
283A
Serum
Evaluation of Copper Sulfate and a Copper Lysine Complex as Growth Promoters for Weanling Swine, 2640
Sex
131A
Acute Prenatal Androgen Treatment Increases Birth Weights and Growth Rates in Lambs, 2600
Administration of Porcine Somatotropin by Daily Injection: Growth and Endocrine Responses in Genetically Lean and Obese Barrows and Gilts, 3294
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth, Carcass, and Sensory Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1327
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth Factor and Metabolic Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1318
Effect of Breed Type and Sex on the Fatty Acid Composition of Subcutaneous and Intramuscular Lipids of Finishing Steers and Heifers, 3325
Effect of Sex Class on Nutrient Content of Meat from Young Goat, 296
Factors Affecting the Developmental Stage of Embryos Recovered on Day 7 from Superovulated Dairy Cattle, 1539
Sex-Chromosome
111A
Sex Determination
Sex Identification in Mammals with Polymerase Chain Reaction and Its Use to Examine Sex Effects on Diameter of Day-10 or -11 Pig Embryos, 1408
Sexual Behavior
125A, 129A
Shear Force
157A
Sheep
120A, 125A, 129A, 130A, 131A, 137A, 138A, 165A, 205A, 206A, 225A, 227A, 230A, 232A, 243A, 244A, 245A, 252A, 260A, 261A, 274A, 276A, 277A, 279A
Abortifacient Response and Plasma Vasoconstrictive Activity After Feeding Needles from Ponderosa Pine Trees to Cattle and Sheep, 2102
Absorption of L-Carnosine, L-Methionine, and L-Methionylglycine by Isolated Sheep Ruminal and Omasal Epithelial Tissue, 3464
Acute Prenatal Androgen Treatment Increases Birth Weights and Growth Rates in Lambs, 2600
A Potential Strategy for Decreasing Milk Production in the Ewe at Weaning Using a Growth Hormone Release Blocker, 1901
Butylsoyamide Protects Soybean Oil from Ruminal Biohydrogenation: Effects of Butylsoyamide on Plasma Fatty Acids and Nutrient Digestion in Sheep, 818
Cortisol Secretion and Growth in Ewe Lambs Chronically

Exposed to Electric and Magnetic Fields of a 60-Hertz 500-Kilovolt AC Transmission Line, 3274
Cysteamine-Induced Depletion of Somatostatin in Sheep: Time Course of Depletion and Changes in Plasma Metabolites, Insulin, and Growth Hormone, 77
Detection of Fetal Twins in Sheep Using a Radioimmunoassay for Pregnancy-Specific Protein B, 960
Detection of the Effects of Phytoestrogens on Sheep and Cattle, 1509
Dose Response of Plasma Insulin and Glucagon to Intravenous *n*-Butyrate Infusion in Sheep, 3038
Effect of Cold Exposure on Profiles of Metabolic and Endocrine Responses and on Responses to Feeding and Arginine Injection in Sheep, 2054
Effect of Intravenous Glucose Infusion on Metabolism of Portal-Drained Viscera in Sheep Fed a Cereal/Straw-Based Diet, 2146
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: I. Digestion of Nitrogen and Amino Acids, 824
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: II. Digestion of Artifacts of Heating, 835
Effects of Energy Source and Food Flavor on Conditioned Preferences in Sheep, 1651
Effects of Glycine and Bovine Serum Albumin on Inhibition of Propionate Metabolism in Ovine Hepatocytes Caused by Reduced Phenolic Monomers, 3009
Effects of Restraint and Isolation Stress and Epidural Blockade on Endocrine and Blood Metabolite Status, Muscle Glycogen Metabolism, and Incidence of Dark-Cutting Longissimus Muscle of Sheep, 2295
Ewe Productivity and Subsequent Preweaning Lamb Performance in St. Croix Sheep Bred at Different Times During the Year, 1258
Influence of a Three-Day Feed and Water Deprivation Period on Gut Fill, Tissue Weights, and Tissue Composition in Mature Wethers, 2548
Influence of Energy or Protein Supplementation During Mid-pregnancy on Forage Intake of Ewes Grazing Montana Winter Range, 2853
Influences of Amount of Pedigree Information on Computing Time and of Model Assumptions on Restricted Maximum-Likelihood Estimates of Population Parameters in Swiss Black-Brown Mountain Sheep, 2213
Messenger Ribonucleic Acid for Gonadotropin-Releasing Hormone Receptor and Numbers of Gonadotropin-Releasing Hormone Receptors in Ovariectomized Ewes after Hypothalamic-Pituitary Disconnection and Treatment with Estradiol, 1784
Mortality of Domestic Sheep in Free-Ranging Flocks in Southeastern Norway, 1012
Passive Immunization of Ewes Against an Inhibin-Like Peptide Increases Follicle-Stimulating Hormone Concentrations, Ovulation Rate, and Prolificacy in Spring-Mated Ewes, 1433
Performance of Hair Breeds and Prolific Wool Breeds of Sheep in Southern Illinois: Lamb Production of F_1 Adult Ewes, 1602
Plasma Insulin and Glucagon Responses to Propionate Infusion into Femoral and Mesenteric Veins in Sheep, 191
Rapid Communication: A Polymorphism Detected in Sheep Using a Complement Subcomponent C1r (*C1R*) Probe, 629
Relationships Among Heat Production, Body Weight, and Age in Suffolk and Texel Ewes, 1030
Selection for Lambing Rate and Clean Fleece in Sheep, 3195
Serum Hormones, Follicular Fluid Steroids, Insulin-Like Growth Factors and Their Binding Proteins, and Ovarian IGF mRNA in Sheep with Different Ovulation Rates, 1152
Stress-Associated Concentrations of Plasma Cortisol Cannot Account for Reduced Lymphocyte Function and Changes in Serum Enzymes in Lambs Exposed to Restraint and Isolation Stress, 812
Temporal Relationships Between Stress Protein Induction, Progesterone Withdrawal, and Apoptosis in Corpora Lutea of Ewes Treated with Prostaglandin $F_{2\alpha}$, 1789
The Role of Insulin-Like Growth Factor I in Clenbuterol-Stimulated Growth in Growing Lambs, 3069
The Value of Soybean Hulls as a Replacement for Corn in Beef Cattle Diets Formulated With or Without Added Fat, 2706

Sheep Grazing
242A

Sheep Industry
243A

Short-Chain Fatty Acids
Dietary Fiber for Cats: In Vitro Fermentation of Selected Fiber Sources by Cat Fecal Inoculum and In Vivo Utilization of Diets Containing Selected Fiber Sources and Their Blends, 2329
Dietary Fiber for Dogs: IV. In Vitro Fermentation of Selected Fiber Sources by Dog Fecal Inoculum and In Vivo Digestion and Metabolism of Fiber-Supplemented Diets, 1099
In Vitro Fermentation of Cellulose, Beet Pulp, Citrus Pulp, and Citrus Pectin Using Fecal Inoculum from Cats, Dogs, Horses, Humans, and Pigs and Ruminal Fluid from Cattle, 3639
In Vitro Fermentation of Selected Fibrous Substrates by Dog and Cat Fecal Inoculum: Influence of Diet Composition on Substrate Organic Matter Disappearance and Short-Chain Fatty Acid Production, 1110

Shrimp Waste Meal
178A

Shrink
Influence of a Three-Day Feed and Water Deprivation Period on Gut Fill, Tissue Weights, and Tissue Composition in Mature Wethers, 2548

Silage
200A, 201A, 203A, 204A, 259A, 287A, 288A

Simmental
Performance and Genetic Trends in Purebred Simmental for Regions of the United States, 2540
Subclinical Mastitis and Milk Production in Primiparous Simmental Cows, 1552

Simulation
116A, 192A, 244A
Comparison of Evaluation-Selection Systems for Maximizing Genetic Response at the Same Level of Inbreeding, 2208
Comparison of Performance of Boer and Spanish Goats in Two U.S. Locations, 302

Single-calf Heifer System
Parturition and Periparturient Reproductive and Metabolic Hormone Concentrations in Prenatally Androgenized Beef Heifers, 3712

Sire Breed
120A
Influence of Undegraded Intake Protein Supplementation on Milk Production, Weight Gain, and Reproductive Performance in Postpartum Brahman Cows, 3223

Sire Evaluation
Preweaning Growth of Angus- (*Bos taurus*), Brahman- (*Bos indicus*), and Tuli- (Sanga) Sired Calves and Reproductive Performance of their Brahman Dams, 2558
Within-Herd Genetic Analyses of Stayability of Beef Females, 993

Sire Selection
117A

Size
218A

Skeletal Development
Alterations in Metacarpal Characteristics in Steers and Heifers Sequentially Implanted with Synovex® from 45 Days of Birth, 55

Skeletal Muscle
166A
Comparison Between 3-Methylhistidine Production and Proteinase Activity as Measures of Skeletal Muscle Breakdown in Protein-Deficient Growing Barrows, 2272
Immunohistochemical Microquantification of Fast-Myosin in Frozen Histological Sections of Mammalian Skeletal Muscles, 88

Skin
274A
Collagen Characteristics of Skin, Fell, and Epimysium from Rams, Wethers, and Zeranol-Implanted Ram Lambs, 393
Effects of Amino Acids Administered to a Perfused Area of the Skin in Angora Goats, 565

Slaframine
Endocrine and Metabolic Response to Muscarinic Stimulation and Inhibition in the Ruminant: Effects of Slaframine, 3673
Influence of Duodenal Slaframine Infusion on Site of Nutrient Disappearance from the Digestive Tract of Steers Fed a High-Concentrate Diet, 3103

The Effect of Daily Slaframine Injection on Salivary Score, Feed Intake, Ruminal pH, and Circulating Concentrations of Somatotropin and Insulin-Like Growth Factor I, 526
The Effect of Slaframine on Salivary Output and Subacute and Acute Acidosis in Growing Beef Steers, 516
The Involvement of Slaframine and Swainsonine in Slobbers Syndrome: A Review, 1499
Slobbers Syndrome
The Involvement of Slaframine and Swainsonine in Slobbers Syndrome: A Review, 1499
Sludges
Effects of Feeding Wash-Water Solids on Health and Performance of Ewes and Lambs, 3552
Small Intestine
Adaptation to Small Intestinal Starch Assimilation and Glucose Transport in Ruminants, 1828
Effect of Supplemental Fish Meal Protein on Site and Extent of Digestion in Beef Steers, 1196
Influence of Duodenal Slaframine Infusion on Site of Nutrient Disappearance from the Digestive Tract of Steers Fed a High-Concentrate Diet, 3103
Smooth Muscles
207A
SOD
254A
Rapid Communication: Restriction Fragment Length Polymorphism at the Porcine *Superoxide Dismutase* Locus, 921
Sodium Bicarbonate
Effects of Dietary Buffers on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 414
Sodium Nitrite
207A
Sodium Propionate
275A
Sodium Sulfite
177A, 178A
Software
133A
Solar Radiation
Prepartum Nutrition and Solar Radiation in Beef Cattle: I. Relationships of Body Fluid Compartments, Packed Cell Volume, Plasma Urea Nitrogen, and Estrogens to Prenatal Development, 1289
Prepartum Nutrition and Solar Radiation in Beef Cattle: II. Residual Effects on Postpartum Milk Yield, Immunoglobulin, and Calf Growth, 1303
Solubilization
207A
Somatic Cell Score
112A
Somatostatin
Cysteamine-Induced Depletion of Somatostatin in Sheep: Time Course of Depletion and Changes in Plasma Metabolites, Insulin, and Growth Hormone, 77
Somatotropin
143A, 145A, 148A, 150A, 153A, 182A, 215A, 229A
A Comparison of Preferences for Pork Sandwiches Produced from Animals With and Without Somatotropin Administration, 1048
A Potential Strategy for Decreasing Milk Production in the Ewe at Weaning Using a Growth Hormone Release Blocker, 1901
Acute Shifts in Relaxin, Progesterone, Prolactin, and Growth Hormone Secretion in Chinese Meishan Gilts During Late Pregnancy and After Hysterectomy, 3732
Administration of Porcine Somatotropin by Daily Injection: Growth and Endocrine Responses in Genetically Lean and Obese Barrows and Gilts, 3294
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth, Carcass, and Sensory Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1327
Administration of Porcine Somatotropin by Sustained-Release Implant: Growth Factor and Metabolic Responses in Crossbred White and Genetically Lean and Obese Boars and Gilts, 1318
Comparative Effectiveness of Somatotropin and Anabolic Steroids in Feedlot Steers, 1038
Comparison of Daily Versus Continuous Administration of Somatotropin on Growth Rate, Feed Intake, and Body Composition in Intact Female Rats, 1019
Cysteamine-Induced Depletion of Somatostatin in Sheep: Time Course of Depletion and Changes in Plasma Metabolites, Insulin, and Growth Hormone, 77
Dietary Protein and(or) Energy Restriction in Mares: Plasma Growth Hormone, IGF-I, Prolactin, Cortisol, and Thyroid Hormone Responses to Feeding, Glucose, and Epinephrine, 1424
Dose-Response Effects of Recombinant Bovine Somatotropin (Posilac™) on Growth Performance and Body Composition of Two-Year-Old Rainbow Trout (*Oncorhynchus mykiss*), 3216
Effect of Chromium Tripicolinate on Growth, Glucose Tolerance, Insulin Sensitivity, Plasma Metabolites, and Growth Hormone in Pigs, 1123
Effect of Cold Exposure on Profiles of Metabolic and Endocrine Responses and on Responses to Feeding and Arginine Injection in Sheep, 2054
Effects of Bovine Somatotropin and Insulin on Whole-Body and Hindlimb Glucose Metabolism in Growing Steers, 2263
Effects of Dietary Protein Percentage and β-Agonist Administered to Prepubertal Ewes on Mammary Gland Growth and Hormone Secretions, 2655
Effects of Growth Hormone and Ovariectomy on Performance, Serum Hormones, Insulin-Like Growth Factor-Binding Proteins, and Muscle Fiber Properties of Prepubertal Friesian Heifers, 3574
Effects of Porcine Somatotropin Administration on Porcine Muscles Located Within Different Regions of the Body, 2282
Effects of Recombinant Porcine Somatotropin on Placental Size, Fetal Growth, and IGF-I and IGF-II Concentrations in Pigs, 2980
Feed Deprivation of Mares: Plasma Metabolite and Hormonal Concentrations and Responses to Exercise, 3696
Glucose and Free Fatty Acid Modulation of Growth Hormone and Luteinizing Hormone Secretion by Cultured Porcine Pituitary Cells, 1416
Growth Performance, Carcass Characteristics, and Sensory Attributes of Boars Administered Porcine Somatotropin by Sustained-Release Implant for Different Lengths of Time, 3585
Metabolic and Luteal Sequelae to Heightened Dietary Fat Intake in Undernourished, Anestrous Beef Cows Induced to Ovulate, 2086
Plasma Growth Hormone, Insulin-Like Growth Factor I, and Insulin-Like Growth Factor Binding Proteins in Pigs with Divergent Genetic Merit for Postweaning Average Daily Gain, 1776
Plasma Protein for Pigs Weaned at 19 to 24 Days of Age: Effect on Performance and Plasma Insulin-Like Growth Factor I, Growth Hormone, Insulin, and Glucose Concentrations, 3657
Recombinant Bovine Somatotropin Increases Milk Yield and Calf Gain in Diverse Breeds of Beef Cattle: Associated Changes in Hormones and Indices of Metabolism, 3051
Serum Concentrations of Luteinizing Hormone, Growth Hormone, and Prolactin in Untreated and Estradiol-Treated Ovariectomized Ewes After Immunoneutralization of Hypothalamic Neuropeptide Y, 2105
The Effect of Daily Slaframine Injection on Salivary Score, Feed Intake, Ruminal pH, and Circulating Concentrations of Somatotropin and Insulin-Like Growth Factor I, 526
The Selection of Protein Intake by Pigs Treated with Porcine Somatotropin, 764
Somatotropin Receptor
Rapid Communication: Nucleotide Sequence of the Promoter and First Exon of the Somatotropin Receptor Gene in Cattle, 1529
Sorghum
179A, 185A, 200A
Sorghum Amino Acid-Supplemented Diets for the 50- to 100-Kilogram Pig, 1746
Sorghum Silage
280A
Effect of Sulfur Fertilization on Chemical Composition, Ensiling Characteristics, and Utilization by Lambs of Sorghum Silage, 1803
Sound
130A
South Africa
154A

South America
124A
Southeast
244A
Sow Reproduction
Dietary Chromium Picolinate Additions Improve Gain:Feed and Carcass Characteristics in Growing-Finishing Pigs and Increase Litter Size in Reproducing Sows, 457
Effect of Initial Breeding Weight on Macro- and Micromineral Composition over a Three-Parity Period Using a High-Producing Sow Genotype, 151
Sows
127A, 151A, 185A, 186A, 188A, 212A, 213A, 218A, 247A, 250A
A Technique for the Venous Cannulation of the Mammary Gland in the Lactating Sow, 1390
Dietary and Plasma Branched-Chain Amino Acids in Relation to Tryptophan: Effect on Voluntary Feed Intake and Lactation Metabolism in the Primiparous Sow, 1086
Effect of Supplemental Yeast Culture in Sow Gestation and Lactation Diets on Apparent Nutrient Digestibilities and Reproductive Performance Through One Reproductive Cycle, 1741
Effects of Energy Source in the Diet on Reproductive Hormones and Insulin During Lactation and Subsequent Estrus in Multiparous Sows, 3022
Effects of Induced or Delayed Parturition and Supplemental Dietary Fat on Colostrum and Milk Composition in Sows, 1906
Effects of Reducing Particle Size of Corn in Lactation Diets on Energy and Nitrogen Metabolism in Second-Parity Sows, 427
Genetics of the Interval from Weaning to Estrus in First-Litter Sows: Distribution of Data, Direct Response of Selection, and Heritability, 2193
Maternal and Fetal Blood Levels of Glucose, Lactate, Fructose, and Insulin in the Conscious Pig, 2994
Reducing Particle Size of Corn in Lactation Diets from 1,200 to 400 Micrometers Improves Sow and Litter Performance, 421
The Effect of Caffeine on Mammary Gland Development and Milk Yield in Primiparous Sows, 534
Soy
177A, 178A
Soybean Hulls
The Value of Soybean Hulls as a Replacement for Corn in Beef Cattle Diets Formulated With or Without Added Fat, 2706
Soybean Meal
177A, 178A, 180A, 181A, 258A
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: I. Digestion of Nitrogen and Amino Acids, 824
Effect of Roasting on Site and Extent of Digestion of Soybean Meal by Sheep: II. Digestion of Artifacts of Heating, 835
Influence of Altering Ruminal Degradation of Soybean Meal Protein on In Situ Ruminal Fiber Disappearance of Forages and Fibrous Byproducts, 2428
Soybean Oil
Dust Suppression in Swine Feed Using Soybean Oil, 981
Soybeans
175A, 177A
The Effect of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: I. Organic Matter, Energy, Fiber, and Fatty Acid Digestion, 2120
The Effects of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: II. Protein and Amino Acid Digestion, 2131
Space Requirements
246A, 250A
Spacing Behavior
130A
Spanish Goats
155A, 228A, 252A
Comparison of Performance of Boer and Spanish Goats in Two U.S. Locations, 302
SPA Process
244A
Speaking
289A
Specific Gravity
Influence of Moisture Content of Forage on Ruminal Functional Specific Gravity and Passage of Digesta, 3094
Kinetics of Hydration and Functional Specific Gravity of Fibrous Feed By-Products, 1449
Spermatozoa
224A, 225A, 228A
Sperm Production in Boars After Nine Generations of Selection for Increased Weight of Testis, 2177
Spermine
Toxicity and Growth-Promoting Potential of Spermine When Fed to Chicks, 2375
Sperm Morphology
225A
Spikes
Technical Note: Subjective Enumeration of Episodic Events (Spikes) in Animal Physiology Experiments, 1164
Sponsor
The Responsibilities of Investigators, Monitors, and Sponsors of Clinical Studies Supporting New Animal Drug Applications, 606
St. Croix
252A
Ewe Productivity and Subsequent Preweaning Lamb Performance in St. Croix Sheep Bred at Different Times During the Year, 1258
Performance of Hair Breeds and Prolific Wool Breeds of Sheep in Southern Illinois: Lamb Production of F_1 Adult Ewes, 1602
Stability
180A
A Review of Dietary Vitamin E Supplementation for Improvement of Beef Quality, 3131
Stable Isotope
270A
Studies on the In Situ Nitrogen Degradability Corrected for Bacterial Contamination of Concentrate Feeds in Steers, 220
Staphylococcus aureus
1B
Starch
262A, 268A, 275A
Adaptation to Small Intestinal Starch Assimilation and Glucose Transport in Ruminants, 1828
Effect of Barley Variety and Dietary Barley Content on Digestive Function in Beef Steers Fed Grass Hay-Based Diets, 3476
Effect of Corn Hybrid and Grain Processing Method on Rate of Starch Disappearance and Performance of Finishing Cattle, 360
Effect of Level and Type of Fat on Subacute Acidosis in Cattle Fed Dry-Rolled Corn Finishing Diets, 2438
Effect of Substitution of Starch for Fiber and Fat in Isoenergetic Diets on Nutrient Digestibility and Reproductive Performance of Rabbits, 1131
Feeding Wet Corn Gluten Feed to Reduce Subacute Acidosis in Cattle, 2931
High-Lysine Corn as a Source of Protein and Energy for Finishing Calves, 228
Intake and Digestion of Low-, Medium-, and High-Quality Grass Hays by Lambs Receiving Increasing Levels of Corn Supplementation, 2156
Net Nutrient Flux by Visceral Tissues of Beef Steers Given Abomasal and Ruminal Infusions of Casein and Starch, 236
Starch Digestion
248A
Effect of Supplemental Fish Meal Protein on Site and Extent of Digestion in Beef Steers, 1196
Influence of Duodenal Slaframine Infusion on Site of Nutrient Disappearance from the Digestive Tract of Steers Fed a High-Concentrate Diet, 3103
Statistical Ecology
Effect of Weaning Diet on the Ecology of Adherent Lactobacilli in the Gastrointestinal Tract of the Pig, 2347
Statistical Methods
Technical Note: Changes in Genetic Predictions Between Subsequent Evaluations, 2204
Status
Assessment of Vitamin E Nutritional Status in Yearling Beef Heifers, 1440
Steaks
156A
Steam-Flaking
185A, 248A, 283A

Stearoyl-Co A Gene Expression
114A
Steers
140A, 159A, 169A, 237A, 267A, 269A, 271A, 275A, 286A, 287A
Characteristics and Efficiency of Fast-Growing Feedlot Steers Fed Different Dietary Energy Concentrations, 931
Comparative Effectiveness of Somatotropin and Anabolic Steroids in Feedlot Steers, 1038
Composition of Ruminal Bacteria Harvested from Steers as Influenced by Dietary Forage Level and Fat Supplementation, 2469
Effects of Bovine Somatotropin and Insulin on Whole-Body and Hindlimb Glucose Metabolism in Growing Steers, 2263
Effects of Forage Level and Canola Seed Supplementation on Site and Extent of Digestion of Organic Matter, Carbohydrates, and Energy by Steers, 2458
Feedlot Performance and Carcass Characteristics of Holstein Steers as Affected by Source of Dietary Protein and Level of Ruminally Protected Lysine and Methionine, 3503
Influence of Altering Ruminal Degradation of Soybean Meal Protein on In Situ Ruminal Fiber Disappearance of Forages and Fibrous Byproducts, 2428
Influence of Incremental Zeranol Implant Doses on the Chemical and Physical Characteristics of Third Metacarpal Bone and Chemical Composition of Liver and Soft Tissue from Feedlot Steers, 1
In Vitro Ouabain-Sensitive Respiration and Protein Synthesis in Rumen Epithelial Papillae of Hereford Steers Fed Either Timothy Hay or Timothy Hay Supplemented with Cracked Corn Once Daily, 3775
Lipogenic Activity of Intramuscular and Subcutaneous Adipose Tissues from Steers Produced by Different Generations of Angus Sires, 1310
Prediction of Carcass and Empty Body Composition of Steers by ^{40}K Emission Detection, 2882
The Effect of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: I. Organic Matter, Energy, Fiber, and Fatty Acid Digestion, 2120
The Effect of Slaframine on Salivary Output and Subacute and Acute Acidosis in Growing Beef Steers, 516
The Effects of Roasting Temperature Applied to Whole Soybeans on Site of Digestion by Steers: II. Protein and Amino Acid Digestion, 2131
Stereotypies
127A
Steroidogenesis
230A
Effects of Insulin-Like Growth Factor I and Insulin on Proliferation and on Basal and Luteinizing Hormone-Induced Steroidogenesis of Bovine Thecal Cells: Involvement of Glucose and Receptors for Insulin-Like Growth Factor I and Luteinizing Hormone, 3719
Steroids
Comparative Effectiveness of Somatotropin and Anabolic Steroids in Feedlot Steers, 1038
Stimulation
244A
Stocker
236A
Stocking Density
199A
Cattle Grazing a Riparian Mountain Meadow: Effects of Low and Moderate Stocking Density on Nutrition, Behavior, Diet Selection, and Plant Growth Response, 3752
Stomach
Effects of Dietary Buffers on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 414
Effects of Mill Type and Particle Size Uniformity on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 2564
Effects of Particle Size and Pelleting on Growth Performance, Nutrient Digestibility, and Stomach Morphology in Finishing Pigs, 757
Effects of Reducing Particle Size of Corn in Lactation Diets on Energy and Nitrogen Metabolism in Second-Parity Sows, 427
Stomach Fundus
207A
Storage
156A
Storage Life
Effects of Dietary Supplementation of Vitamin E on Storage and Caselife Properties of Lamb Retail Cuts, 399
Strain Differences
Changes in Plasma Urea Concentration Can Be Used to Determine Protein Requirements of Two Populations of Pigs with Different Protein Accretion Rates, 2631
Strength
Influence of Incremental Zeranol Implant Doses on the Chemical and Physical Characteristics of Third Metacarpal Bone and Chemical Composition of Liver and Soft Tissue from Feedlot Steers, 1
Streptococcus suis
Influence of Dietary β-Glucan on Growth Performance, Nonspecific Immunity, and Resistance to *Streptococcus suis* Infection in Weanling Pigs, 3341
Stress
125A, 126A, 160A, 236A, 254A, 265A
Effects of Arrival Medication with Tilmicosin Phosphate on Health and Performance of Newly Received Beef Cattle, 1219
Effects of Restraint and Isolation Stress and Epidural Blockade on Endocrine and Blood Metabolite Status, Muscle Glycogen Metabolism, and Incidence of Dark-Cutting Longissimus Muscle of Sheep, 2295
Endocrine Responses in Cows Fed Ponderosa Pine Needles and the Effects of Stress, Corpus Luteum Regression, Progestin, and Ketoprofen, 198
Impact of Changes in Organic Nutrient Metabolism on Feeding the Transition Dairy Cow, 2820
Influence of a Three-Day Feed and Water Deprivation Period on Gut Fill, Tissue Weights, and Tissue Composition in Mature Wethers, 2548
Plasma Cortisol and White Blood Cell Responses in Different Breeds of Bulls: A Comparison of Two Methods of Castration, 975
Preweaning Diet and Stall Weaning Method Influences on Stress Response in Foals, 2922
Stress-Associated Concentrations of Plasma Cortisol Cannot Account for Reduced Lymphocyte Function and Changes in Serum Enzymes in Lambs Exposed to Restraint and Isolation Stress, 812
Stress, Pain
125A
Stress Proteins
Temporal Relationships Between Stress Protein Induction, Progesterone Withdrawal, and Apoptosis in Corpora Lutea of Ewes Treated with Prostaglandin $F_{2\alpha}$, 1789
Student Recruitment
292A
Students
289A
Subjective Evaluation
Technical Note: Subjective Enumeration of Episodic Events (Spikes) in Animal Physiology Experiments, 1164
Subtropical Crops
Performance, Carcass Yield, and Carcass Quality Characteristics of Steers Finished on Rhizoma Peanut (*Arachis glabrata*)–Tropical Grass Pasture or Concentrate, 1881
Suckled Beef Cows
Effect of Norgestomet Treatment After Insemination on the Calving Rate of Postpartum Suckled Beef Cows, 3230
Suckling
234A
Suckling Behavior
130A
Sudan
153A
Sudangrass Hay
199A
Sugar Cane Bagasse
264A
Sulfur
Effect of Sulfur Fertilization on Chemical Composition, Ensiling Characteristics, and Utilization by Lambs of Sorghum Silage, 1803
Sulfur Amino Acids
Added Dietary Methionine in Starter Pig Diets Containing Spray-Dried Blood Products, 2647

Optimum Ratio to Lysine of Threonine, Tryptophan, and Sulfur Amino Acids for Finishing Swine, 482
The Effect of Dietary Methionine and Its Relationship to Lysine on Growth Performance of the Segregated Early-Weaned Pig, 3666
Summer
130A
Superovulation
Factors Affecting the Developmental Stage of Embryos Recovered on Day 7 from Superovulated Dairy Cattle, 1539
Supervision
Reducing Pig Mortality Through Supervision During the Perinatal Period, 3543
Supplement Feeding
196A, 197A, 198A, 205A, 235A, 254A, 255A, 258A, 268A, 272A
Effects of Energy or Protein Supplements and Stage of Production on Intake and Digestibility of Hay by Beef Cows, 651
Effects of Feeding Energy or Protein Supplements Before or After Calving on Performance of Spring-Calving Cows Grazing Native Range, 657
Increased Postweaning Gain of Beef Heifers Enhances Fertility and Milk Production, 937
Influence of Energy or Protein Supplementation During Midpregnancy on Forage Intake of Ewes Grazing Montana Winter Range, 2853
Supplemental Protein and Energy for Beef Cows Consuming Endophyte-Infected Tall Fescue, 3427
Technical Note: Detection and Quantification of Supplemental Fungal β-Glucanase Activity in Animal Feed, 1074
Survival
Causes of Reduced Survival of Neonatal Pigs by Medium-Chain Triglycerides: Blood Metabolite and Behavioral Activity Approaches, 2019
Within-Herd Genetic Analyses of Stayability of Beef Females, 993
Sustainable Agreements
135A
Swainsonine
The Involvement of Slaframine and Swainsonine in Slobbers Syndrome: A Review, 1499
Sweat Glands
Breed Affects Thermoregulation and Epithelial Morphology in Imported and Native Cattle Subjected to Heat Stress, 3570
Swine
110A, 116A, 128A, 139A, 141A, 143A, 145A, 162A, 170A, 179A, 190A, 191A, 192A, 193A, 213A, 214A, 251A
36B
Swine Mortality
134A
Swine Production
291A
SYNCHRO-MATE-B
241A
Synchronization
240A, 241A, 242A
Synchronization of Ovarian Follicular Waves with a Gonadotropin-Releasing Hormone Agonist to Increase the Precision of Estrus in Cattle: A Review, 3141
Synovex
242A
Systemic Change
289A
Systems
192A

T

Tannins
282A
Effects of Hulls of Faba Beans (*Vicia faba* L.) with a Low or High Content of Condensed Tannins on the Apparent Ileal and Fecal Digestibility of Nutrients and the Excretion of Endogenous Protein in Ileal Digesta and Feces of Pigs, 118
Tapioca
179A
Taurine
Developmental Changes in Sensitivity of Bovine Embryos to Heat Shock and Use of Antioxidants as Thermoprotectants, 1401
TCDD
145A
Teaching
290A, 291A
Consumer Concerns About Modern Technology in Agriculture: Considerations for Undergraduate and Graduate Teaching, 2727
Instructing the Animal Physiology Graduate Student in Human Assisted Reproductive Technology, 2503
The Real Story About Food Safety, 2741
Technology
122A
Consumer Concerns About Modern Technology in Agriculture: Considerations for Undergraduate and Graduate Teaching, 2727
Temperament
127A
Individual Differences in Docility in Limousin Cattle, 2249
Temperature
201A
Interaction of Diet Composition and a Reduced Nocturnal Temperature Regimen in Weanling Pigs, 2518
Temporary Weaning
241A
Tenderization
156A
Tenderness
155A, 156A, 157A, 158A
A Muscle Hypertrophy Condition in Lamb (Callipyge): Characterization of Effects on Muscle Growth and Meat Quality Traits, 3596
Effect of Time on Feed on Performance of Feedlot Steers, Carcass Characteristics, and Tenderness and Composition of Longissimus Muscles, 21
Effects of Slaughter Age on Meat Tenderness and USDA Carcass Maturity Scores of Beef Females, 3304
Feedlot Performance, Carcass Traits, and Palatability Traits of Hereford and Hereford × Brahman Steers, 3613
Improvement of Beef Tenderness and Quality Traits with Calcium Chloride Injection in Beef Loins 48 Hours Postmortem, 750
Injection-Site Lesions: Incidence, Tissue Histology, Collagen Concentration, and Muscle Tenderness in Beef Rounds, 3510
Pork Characteristics as Affected by Two Populations of Swine and Six Crude Protein Levels, 3621
Postmortem Injection of Calcium Chloride Effects on Beef Quality Traits, 1735
Relationship Between Shear Force and Trained Sensory Panel Tenderness Ratings of 10 Major Muscles from *Bos indicus* and *Bos taurus* Cattle, 3333
Relationship of Restriction Fragment Length Polymorphisms (RFLP) at the Bovine Calpastatin Locus to Calpastatin Activity and Meat Tenderness, 3608
Restaurant Consumer Acceptance of Beef Loin Strip Steaks Tenderized with Calcium Chloride, 3633
Retail Consumer Acceptance of Beef Tenderized with Calcium Chloride, 2308
Silage or Limit-Fed Grain Growing Diets for Steers: I. Growth and Carcass Quality, 2609
The Effects of *In Utero* Exposure of Lambs to a β-Adrenergic Agonist on Prenatal and Postnatal Muscle Growth, Carcass Cutability, and Meat Tenderness, 2986
Use of Genetically Identical (Clone) Steers to Determine the Effects of Estrogenic and Androgenic Implants on Beef Quality and Palatability Characteristics, 3317
Tenderness Technologies
159A
Tennessee Stiff-Legged
155A
Terminal Transferase 3'-End Labeling
Follicular Atresia in Pigs: Measurement and Physiology, 2834
Testes
119A, 228A
Growth of Testes and Testicular Morphology After Eight Generations of Selection for Increased Predicted Weight of Testes at 150 Days of Age in Boars, 2186

Sperm Production in Boars After Nine Generations of Selection for Increased Weight of Testis, 2177
Testosterone
Acute Prenatal Androgen Treatment Increases Birth Weights and Growth Rates in Lambs, 2600
Prenatal Androgenization of Lambs: I. Alterations of Growth, Carcass Characteristics, and Metabolites in Blood, 1694
Prenatal Androgenization of Lambs: II. Metabolism in Adipose Tissue and Liver, 1701
Texel
252A
Thecal Cells
219A
Effects of Insulin-Like Growth Factor I and Insulin on Proliferation and on Basal and Luteinizing Hormone-Induced Steroidogenesis of Bovine Thecal Cells: Involvement of Glucose and Receptors for Insulin-Like Growth Factor I and Luteinizing Hormone, 3719
Thermoregulation
132A, 141A
Thiouracil
209A
Thirst
213A
Threonine
183A
Effect on Performance and Carcass Characteristics of Nursery to Finisher Pigs Fed Reduced Crude Protein, Amino Acid-Supplemented Diets, 433
Optimum Ratio to Lysine of Threonine, Tryptophan, and Sulfur Amino Acids for Finishing Swine, 482
Threshold Models
117A
Within-Herd Genetic Analyses of Stayability of Beef Females, 993
Thyroidectomy
226A
Thyroid Hormones
152A, 189A
Thyroxine
142A, 152A, 226A
Tissue Cholesterol
136A
Tissue Fatty Acid Composition
279A
Tissue Growth
137A
Tissues
276A
Assessment of Vitamin E Nutritional Status in Yearling Beef Heifers, 1440
Technical Note: Tissue Residues of Mimosine and 2,3-Dihydroxypyridine After Intravenous Infusion in Goats, 172
Titin
161A
TMF
217A
Tocopherols
193A
Effects of Dietary Supplementation of Vitamin E on Storage and Caselife Properties of Lamb Retail Cuts, 399
Top Spoilage
200A, 203A
Total Nonstructural Carbohydrates
267A
Toxicity
176A
Acute Hepatic and Renal Toxicity in Lambs Dosed with Fumonisin-Containing Culture Material, 508
Detection of the Effects of Phytoestrogens on Sheep and Cattle, 1509
Effects of Free Gossypol in the Diet of Pregnant and Postpartum Brahman Cows on Calf Development and Cow Performance, 496
Toxicity and Growth-Promoting Potential of Spermine When Fed to Chicks, 2375
Toxicogenic Fungi
Toxic Endophyte-Infected Tall Fescue and Range Grasses: Historic Perspectives, 861
Toxinogenic Fungi
Acremonium in Fescue and Ryegrass: Boon or Bane? A Review, 881
Equine Fescue Toxicosis: Signs and Solutions, 899
The Effects of Fescue Toxicosis on Beef Cattle Productivity, 889
Toxins
Analysis of Endophyte Toxins: Fescue and Other Grasses Toxic to Livestock, 871
Endocrine and Metabolic Response to Muscarinic Stimulation and Inhibition in the Ruminant: Effects of Slaframine, 3673
Endogenous Toxins and Mycotoxins in Forage Grasses and Their Effects on Livestock, 909
Trace Minerals
187A, 256A, 265A
Transgenic Animal
145A
Trans Isomers
210A
Transition
Impact of Changes in Organic Nutrient Metabolism on Feeding the Transition Dairy Cow, 2820
Transport
125A, 269A
Energy Metabolism in Young Pigs as Affected by Mixing, 3562
Transvaginal
Transvaginal Aspiration of Oocytes from Hormone-Treated Pregnant Beef Cattle for In Vitro Fertilization, 967
Trenbolone Acetate
Production Responses to Various Doses and Ratios of Estradiol Benzoate and Trenbolone Acetate Implants in Steers and Heifers, 2873
Trilostane
230A
$tRNA^{Lys}$
Rapid Communication: Nucleotide Sequence of Caprine Mitochondrial Genes for $tRNA^{Lys}$ and two subunits of F_0-ATPase, 3493
Trophoblast
212A
Tropical Corn
200A
Tropical Forages
207A
Trout
194A
Trypsin
The Pattern of the Circadian Rhythm of Pancreatic Secretion in Fed Pigs, 3402
Tryptophan
183A
Dietary and Plasma Branched-Chain Amino Acids in Relation to Tryptophan: Effect on Voluntary Feed Intake and Lactation Metabolism in the Primiparous Sow, 1086
Effect on Performance and Carcass Characteristics of Nursery to Finisher Pigs Fed Reduced Crude Protein, Amino Acid-Supplemented Diets, 433
Optimum Ratio to Lysine of Threonine, Tryptophan, and Sulfur Amino Acids for Finishing Swine, 482
Tuli
238A
Tumor Necrosis Factor Alpha
147A
Turkeys
143A, 161A, 187A
Twinning
110A
In-Vivo Analysis of Serum-Borne Growth Factors in Developing Co-Twinned Fetuses, 1689
Twin Ovulations
231A
Twins
Detection of Fetal Twins in Sheep Using a Radioimmunoassay for Pregnancy-Specific Protein B, 960
Tylosin
285A
Type of Dietary Fat
279A

Types
Effects of Breed Type and Accelerated Fat Removal on Subprimal Yields and Carcass Values, 1055

U

UIP
258A
Ulcers
Reducing Particle Size of Corn in Lactation Diets from 1,200 to 400 Micrometers Improves Sow and Litter Performance, 421
Ultrasound
114A, 156A, 157A, 162A, 163A, 220A, 226A
AAA156A
Pork Carcass Evaluation with an Automated and Computerized Ultrasonic System, 29
Real-Time Ultrasonic Measurement of Fat Thickness and Longissimus Muscle Area: I. Description of Age and Weight Effects, 1713
Real-Time Ultrasonic Measurement of Fat Thickness and Longissimus Muscle Area: II. Relationship Between Real-Time Ultrasound Measures and Carcass Retail Yield, 1725
Ultrasound Certification Standards
162A
Uncoupler Protein
146A
Undegradable Protein
272A
Undegraded Intake Protein
Influence of Undegraded Intake Protein Supplementation on Milk Production, Weight Gain, and Reproductive Performance in Postpartum Brahman Cows, 3223
Underfeeding
Effect of Extended Underfeeding on Digestion and Nitrogen Balance in Nonlactating Cows, 211
Undergraduate
291A
Undergraduate Education
290A
University
Data Integrity–Conduct of Clinical Investigations: University Investigator Perspective, 622
Urea
258A, 271A
Ideal Digestible Lysine Level for Early- and Late-Finishing Swine, 773
Valine Requirement of the Finishing Pig, 2315
Value of Feather Meal in a Molasses-Based Liquid Supplement Fed to Yearling Cattle Consuming a Forage Diet, 2865
Urea Ammoniation
202A
Urea Nitrogen
191A, 223A
Use of Plasma Urea Nitrogen as a Rapid Response Criterion to Determine the Lysine Requirement of Pigs, 472
Ureaplasma Diversum
239A
Urea Space
137A
Urine
213A
Ursus arctos
Mortality of Domestic Sheep in Free-Ranging Flocks in Southeastern Norway, 1012
USDA
Science and Agriculture Policy at Land-Grant Institutions, 1628
Uterine Capacity
Uterine Mass and Uterine Blood Volume in Mice Selected 21 Generations for Alternative Criteria to Increase Litter Size, 2243
Uterine Manipulation
234A
Uterus
214A, 227A, 229A
Control of Blood Flow to the Gravid Uterus of Domestic Livestock Species, 1852
Exogenous Oxytocin Decreases Interestrous Interval of Cyclic Gilts, 3681
Utilization
The Effect of Copper Level on Nutrient Utilization of Weanling Pigs, 166

V

Valine
Valine Requirement of the Finishing Pig, 2315
Variability
Differences in Pup Birth Weight, Pup Variability Within Litters, and Dam Weight of Mice Selected for Alternative Criteria to Increase Litter Size, 1948
Variance
Heterogeneity of Variance by Sire Breed, Sex, and Dam Breed in 200- and 365-Day Weights of Beef Cattle from a Top Cross Experiment, 2579
Variance Components
116A, 118A
Influences of Amount of Pedigree Information on Computing Time and of Model Assumptions on Restricted Maximum-Likelihood Estimates of Population Parameters in Swiss Black-Brown Mountain Sheep, 2213
Technical Note: Assessing the Consistency of Measurement Procedures in Animal Energetics and Nutrition, 1208
The Effect of Selective Reporting on Estimates of Weaning Weight Parameters in Beef Cattle, 1264
Veal
271A
Vegetable Oil
184A
Veins
A Technique for the Venous Cannulation of the Mammary Gland in the Lactating Sow, 1390
Vidco,
164A
Videoconference
Beef Quality Assurance Education Via Satellite Videoconference, 3182
Virginiamycin
Effects of Dietary Virginiamycin on Performance and Liver Abscess Incidence in Feedlot Cattle, 9
Viscera
Net Nutrient Flux by Visceral Tissues of Beef Steers Given Abomasal and Ruminal Infusions of Casein and Starch, 236
Visceral Organs
261A
Vitamin A
176A, 192A, 227A, 282A
The Effect of Excessive Dietary Vitamin A on Performance and Vitamin E Status in Swine Fed Diets Varying in Dietary Vitamin E, 1093
Vitamin C
170A
Vitamin D3
173A, 180A
Vitamin E
160A, 164A, 193A, 277A, 276A, 277A, 281A, 282A
A Review of Dietary Vitamin E Supplementation for Improvement of Beef Quality, 3131
Assessment of Vitamin E Nutritional Status in Yearling Beef Heifers, 1440
Bioavailability of Various Vitamin E Compounds for Finishing Swine, 490
Blood Serum Concentrations of Selenium in Female Llamas (*Lama glama*) in Relationship to Feeding Practices, Region of United States, Reproductive Stage, and Health of Offspring, 337
Dietary Vitamin E Supplementation Shifted Weight Loss from Drip to Cooking Loss in Fresh Beef Longissimus During Display, 2289
Effects of Dietary Supplementation of Vitamin E on Storage and Caselife Properties of Lamb Retail Cuts, 399
Influence of Dietary Vitamin E on the Oxidative Stability and Quality of Pig Meat, 3122

The Effect of Excessive Dietary Vitamin A on Performance and Vitamin E Status in Swine Fed Diets Varying in Dietary Vitamin E, 1093
Vitamins
192A, 193A
VNTR
Rapid Communication: Variable Number of Tandem Repeat Marker, RVF9401, in Rainbow Trout, 1213
Rapid Communication: Variable Number of Tandem Repeat Marker, RVF9303, in Rainbow Trout, 1214
Vocalization
Vocalization and Physiological Response of Pigs During Castration With or Without a Local Anesthetic, 381
Volatile Fatty Acids
262A
The Effects of Ruminal Acidosis on Volatile Fatty Acid Absorption and Plasma Activities of Pancreatic Enzymes in Lambs, 3111
Voluntary Intake
195A, 196A, 201A
Growth and Subsequent Feedlot Performance of Estradiol-Implanted vs Nonimplanted Steers Grazing Fall-Accumulated Endophyte-Infested or Low-Endophyte Tall Fescue, 1576
Vulva Size
218A

W

Waste
273A
Water
131A, 213A, 247A
Water-Holding Capacity
Dietary Vitamin E Supplementation Shifted Weight Loss from Drip to Cooking Loss in Fresh Beef Longissimus During Display, 2289
Water Quality
273A
Environmental Considerations of Livestock Producers, 2733
Weaned Pigs
183A
Weaned Sow
130A
Weaner Pigs
126A
Weaning
128A, 151A, 176A, 254A
A Potential Strategy for Decreasing Milk Production in the Ewe at Weaning Using a Growth Hormone Release Blocker, 1901
Adrenal Responses of Angus × Hereford Cattle to the Stress of Weaning, 2669
Effect of Adding Fat and(or) Milk Products to the Weanling Pig Diet on Performance in the Nursery and Subsequent Grow-Finish Stages, 3358
Effect of Weaning Diet on the Ecology of Adherent Lactobacilli in the Gastrointestinal Tract of the Pig, 2347
Injection-Site Lesions in Carcasses of Cattle Receiving Injections at Branding and at Weaning, 3235
Preweaning Diet and Stall Weaning Method Influences on Stress Response in Foals, 2922
Weaning Diets
178A
Weaning Weight
120A
Calf Production by Angus-Hereford and Brahman-Hereford Cows on Two Native Rangeland Forage Systems, 2893
Effect of Molasses-Based Liquid Supplements on Digestibility of Creeping Bluestem and Performance of Mature Cows on Winter Range, 853
Preweaning Growth of Angus- (*Bos taurus*), Brahman- (*Bos indicus*), and Tuli- (Sanga) Sired Calves and Reproductive Performance of their Brahman Dams, 2558
Recombinant Bovine Somatotropin Increases Milk Yield and Calf Gain in Diverse Breeds of Beef Cattle: Associated Changes in Hormones and Indices of Metabolism, 3051
The Effect of Ewe Body Condition at Lambing on Colostral Immunoglobulin G Concentration and Lamb Performance, 2860
The Effect of Selective Reporting on Estimates of Weaning Weight Parameters in Beef Cattle, 1264
Weanling Pigs
171A, 174A
Weight Gain
259A, 273A
Weight Traits
Heterogeneity of Variance by Sire Breed, Sex, and Dam Breed in 200- and 365-Day Weights of Beef Cattle from a Top Cross Experiment, 2579
Welfare
122A, 290A
Well-Being
Care of Fish in Biological Research, 3485
Farm Animal Well-Being and Intensive Production Systems, 2744
Wet Corn Gluten Feed
280A, 284A
Wet Distillers Grains
284A
Wethers
Relative Bioavailability of Two Organic and Two Inorganic Zinc Sources Fed to Sheep, 1202
Wheat Gluten
171A
Wheat Pasture
Influence of High-Starch vs High-Fiber Energy Supplements on Performance of Stocker Cattle Grazing Wheat Pasture and Subsequent Feedlot Performance, 45
Wheat Straw
277A
Protein Supplementation of Ammoniated Wheat Straw: Effect on Performance and Forage Utilization of Beef Cattle, 1595
Whey
Performance and Nutrient Digestibility in Weanling Pigs as Influenced by Yeast Culture Additions to Starter Diets Containing Dried Whey or One of Two Fiber Sources, 1381
White-Tailed Deer
276A
Wildlife
134A
Winter Range
Influence of Energy or Protein Supplementation During Mid-pregnancy on Forage Intake of Ewes Grazing Montana Winter Range, 2853
Wool
243A
Wool Production
Retention Time of Digesta in the Rumen: Its Repeatability and Relationship with Wool Production of Merino Rams, 206
Writing
289A

Y

Yeast
Yeast Culture
176A, 264A,
Yeasts
208A, 257A, 284A
Different Strains of *Saccharomyces cerevisiae* Differ in Their Effects on Ruminal Bacterial Numbers In Vitro and in Sheep, 1811
Effect of Supplemental Yeast Culture in Sow Gestation and Lactation Diets on Apparent Nutrient Digestibilities and Reproductive Performance Through One Reproductive Cycle, 1741
Performance and Nutrient Digestibility in Weanling Pigs as Influenced by Yeast Culture Additions to Starter Diets Containing Dried Whey or One of Two Fiber Sources, 1381
Yield
206A
Yield Grade
166A

Z

Z-Disks
Is Z-Disk Degradation Responsible for Postmortem Tenderization?, 1351
Zebu
Postweaning and Feedlot Growth and Carcass Characteristics of Angus-, Gray Brahman-, Gir-, Indu-Brazil-, Nellore-, and Red Brahman-Sired F_1 Calves, 373
Relationship Between Shear Force and Trained Sensory Panel Tenderness Ratings of 10 Major Muscles from *Bos indicus* and *Bos taurus* Cattle, 3333
Zeolite
266A
Zeranol
Influence of Incremental Zeranol Implant Doses on the Chemical and Physical Characteristics of Third Metacarpal Bone and Chemical Composition of Liver and Soft Tissue from Feedlot Steers, 1
Mineral and Nitrogen Balance in Lambs Implanted with Zeranol, 3785
Zinc
172A, 183A, 186A, 253A, 277A
Effect of Breed, Intake, and Carcass Composition on the Status of Several Macro and Trace Minerals of Adult Beef Cattle, 2113
Estimates of Zinc and Iron Bioavailability in Pork Liver and the Effect of Sex of Pig on the Bioavailability of Copper in Pork Liver Fed to Male and Female Chicks, 793
Phytase-Induced Changes in Mineral Utilization in Zinc-Supplemented Diets for Pigs, 3384
Production by Ewes Rearing Single or Twin Lambs: Effects of Dietary Crude Protein Percentage and Supplemental Zinc Methionine, 1227
Trace Mineral Supplementation of Yearling Horses, 466
Zinc Lysine Complex
172A
Relative Bioavailability of Two Organic and Two Inorganic Zinc Sources Fed to Sheep, 1202
Zinc Methionine Complex
Relative Bioavailability of Two Organic and Two Inorganic Zinc Sources Fed to Sheep, 1202
Zinc Sulfate
172A